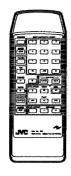
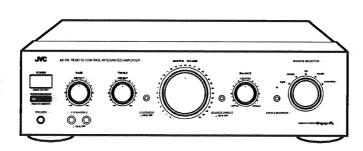
### JVG

### SERVICE MANUAL

### REMOTE CONTROL INTEGRATED AMPLIFIER

### **AX-R5BK**





COMPU LINK
|||| Remote ||||
Control Component

### **Contents**

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### -Safety Precautions -

- 1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
- 2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (A) on the Parts List in the Service Manual. The use of a substitute repalcement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
- 5. Leakage currnet check (Electrical shock hazard testing)
  After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, contorl shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

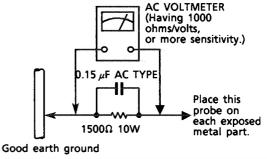
Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester",
  measure the leakage current from each exposed metal parts of the cabinet, particularly
  any exposed metal part having a return path to the chassis, to a known good earth
  ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 $\Omega$  10 W resistor paralleled by a 0.15  $\mu$ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



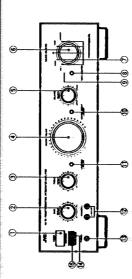
### -Warning -

- 1. This equipment has been designed and manufactured to meet international safety standards.
- 2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- 3. Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- 5. If mains voltage selector is provided, check setting for local voltage.

## Description of Parts

This section describes the names of the buttons, dials and other parts used during the operation of the amplifier and the remote control unit. The page number following each part indicates where detailed explanations are to be found.

## Main Unit of Your Amplifier



Power switch (turns power on/off) (p. 8) @ SOURCE DIRECT button (p. 11) (I) LOUDNESS button (p. 11)

3 BASS dial (p. 11)

(Ø SPEAKERS I and 2 buttons (p. 10) (Ø PHONES jack (p. 10) (Ø REMOTE SENSOR window (§ POWER STANDBY/RECEIVED

TREBLE dial (p. 11)

MASTER VOLUME dial (p. 10)

BALANCE dial (p. 11)

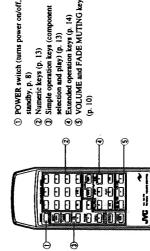
SOURCE SELECTOR dial (p. 9)

SOURCE SELECTOR indicator (p. 9)

® TAPE 2 MONITOR button (p. 11)

@ TAPE 2 MONITOR indicator (p. 11)

## Remote Control Unit



 Simple operation keys (component (2) Numeric keys (p. 13) standby, p. 8)

Extended operation keys (p. 14)
 VOLUME and FADE MUTING keys (p. 10)

Getting Ready

This section describes how to get ready to use your amplifier for the first time, such as connecting other stereo components and speakers, connecting the power supply,

and inserting batteries in the remote control unit.

Connecting Stereo Components to Amplifie

When connecting any stereo components to your amplifier, make sure that their left and right channels are connected properly to the left-channel and right- channel jacks of the amplifier. espectively. If they are reversed, the correct stereophonic image will not be generated.

Confirming Right (Red) and Loft (White) Channels

Note: The right and left channels are normally represented by the colors red and white, respectively. Ensure correct connections by matching the colors of the plugs with the jacks.

Making Basic Connections: Use RCA PIN plugs when connecting stereo component to the amplifier.

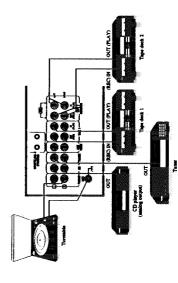
When connecting a tape deck to the amplifier, make the cable connections as follows:

(cable) TAPE DECK Output Jack Input Jack

TAPE 1, 2: IN (PLAY) jack TAPE 1, 2: OUT (REC) jack AMPLIFIER

. When connecting a TV receiver (with audio jacks) or stereo components other than those listed below, use the AUXVIDEO jacks. A tumtable, however, cannot be connected to these  When connecting a turntable, connect a ground cable (if fitted) to the GND screw on the rear panel of the amplifier.

If you want to use a turntable with a small-output cartridge, such as the MC (moving-coil) type, you must use a commercial head amplifier or a step-up transformer before connecting it to the amplifier. A direct connection may result in insufficient volume.



Page 3

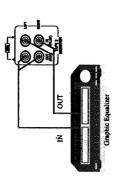
### Connecting a Graphic Equalizer

You may contact a graphic equalizer to the amplifier instead of a second tape deck (TAPE 2). We recommend the use of JVC's S.E.A. graphic equalizer.

When connecting a graphic equalizer to the amplifier, make the cable connections as follows:

GRAPHIC EQUALIZER (cable) Output jack Input jack

TAPE 2 MONITOR: IN (PLAY) jack TAPE 2 MONITOR: OUT (REC) jack AMPLIFIER



Note: For details on listening to a graphic equalizer, refer to p. 11 ("Using Graphic Equalizer").

Your amplifier features IVC's COMPU LINK remote control system, which links the connection cables (included separately with each of the components), connect the COMPU LINK-3 SYNCHRO jacks in the rear of the amplifier with the other JVC components in your operation of each JVC component in your system for easier listening and recording. Using system, as illustrated below.

Using the COMPU LINK-3 SYNCHRO Jacks

- Notes:

   COMPU LINK 3 is an upgraded version of COMPU LINK 1, used on earlier JVC audio componeats. You may use the COMPU LINK 1 STNCHRO jacks on older components to connect with the amplifies; thought certain operations may not work correctly.
  - See pp. 12 for details on operating the COMPU LINK remote control system.
  - The second tape deck (TAPE 2) cannot be linked to the COMPU LINK remote contor! system, so do not attach a COMPU LINK cable to it.
- Other types or audio equipment—such as MD, DCC, DAT—cannot be linked to the COMPU LINK remote control system with the AX-RSBK, so do not attach COMPU LINK cables to them.



## Connecting Speakers to Amplifier

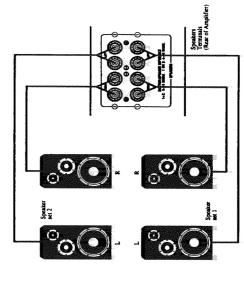
Confirming Proper Speaker You may connect up to two sets of speakers to the amplifier (four speakers in total).

Noke: Make sure to select speakers with the proper impedance: from 4 $\Omega$  to  $16\Omega$ (ohms). If you use two sets of speakers at once, the minimum allowable impedance is 80. Use the following procedure to connect the speaker cables to the SPEAKER terminals in the rear of the amplifier. Connect each cable separately.

Connecting speakers to Amplifier

Loosen the screw on the terminal by turning it counterclockwise.
 Insert the speaker cable into the terminal, as illustrated.

Tighten the screw on the terminal by turning it clockwise to fasten the speaker cables 4. Repeat steps 1-3 for the other speaker cables If you are connecting two sets of speakers to the amplifier, connect the first (main) pair of speakers to the bottom row of SPEAKERS terminals and the second set to the top row. Make the cable connections as follows



Note: Make sure to match the polarity of the terminals on the speaker with that of the terminals on the amplifier; i.e., (+) to (+) and (-) to (-).

Page 4

### Setting Proper Voltage



Depending on the region where the amplifier is bought, a voltage selector switch may be ncluded in the rear of the amplifier, as illustrated.

If your amplifier includes this switch, make sure that it is set at the proper voltage for your region. If adjustment is needed, turn the switch using a Philips (+) screwdriver, aligning the lesired voltage with the arrow in the LINE \$\times \text{VOLTS message.}

Note: The voltage selector switch is not provided on the European model.

△CAUTION Incorrect setting of the voltage selector switch may cause maifunction or damage. Make sure that the voltage selector switch is set correctly before connecting the ower supply.

After checking all the cable connections and the voltage selector switch, insert the power cord

Connecting Power Supply

the front panel of the amplifier (under the power switch) will light up. The indicator, which remains lit even with the power turned off, consumes a very small amount of power (5W). To If the power supply is connected correctly, the POWER STANDBY indicator on the left of shut the power off completely, pull the power cord out of the outlet. of the amplifier into an outlet.

## ACAUTION Never handle the power cord with wet hands.

Depending on the country of purchase, the rear of the amplifier may contain one or two switched outlets on the right (as seen from the rear) that can be used to plug in the power cords

Using Outlets in Rear of Amplifier

When you turn on the amplifier, power will be supplied to these outlets. If the connected components have been previously turned on, turning the amplifier on will cause these components to turn on as well. As these are switched outlets, you cannot turn on the connected equipment when the amplifier is turned off. of other components in your stereo system.

 $\Delta extstyle{ t CAUTION}$  Do not connect components requiring a combined capacity greater than the indicated maximum.





SWITCHED TOTAL MAX 200 W

AC OUTLETS — For other areas

For the U.K.

For Continental Europe

## Inserting batteries

The remote control unit of the amplifier requires two batteries, which are shipped with the

Inserting Batteries into Remote Control Unit

Use the following procedure to insert batteries into the remote control unit:

2. Insert the included batteries into the remote control unit. Confirm that the batteries are 1. Press down on the battery cover on the back of the remote control unit andslide it off. oriented to the proper polarization (+ and -).

3. Replace the battery cover by sliding it back on.







Replacing batteries

If you find that the range of the remote control unit is decreasing (normally set at 7m or 22ft), it is time to replace the batteries. Use R03/AAA (24F)/UM-4 type dry cells.

Notes: The following precautions must be taken to avoid leaking or cracking batteries. Confirm that the batteries are oriented to their proper polarization.

 Use the correct type of batteries, as indicated above. Some batteries with the same size may have the wrong voltage.

Replace both batteries simultaneously.

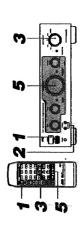
Do not heat or burn the batteries.

## Basic Operation

This section describes the procedure to be taken when using the amplifier to listen to a particular source. You may operate the amplifier directly using the buttons and dials on the amplifier, or by using the remote control unit.

## Operating Procedure

Use the following procedure to listen to a particular source using the amplifier. More detailed procedures are explained on the pages indicated. Important! When operating the remote control unit, make sure to point it at the REMOTE SENSOR window under the POWER switch on the left side of the amplifier. The remote control unit can be used up to a distance of 7 m (22 ft).



Press the POWER switch on the amplifier or the remote contort unit to turn it on. The POWER STANDBY indicator will turn off, and the SOURCE SELECTOR indicator will

1. Turn Power On

The POWER'S I AND I INDICATOR WILLIAM OUT, and the SOURCE light up, indicating that the amplifier is turned on.

Note: Pressing the POWER switch again turns off the power but lights up the STANDBY indicator. A small amount of power (5 W) is consumed under these conditions even if the amplifier is turned off. To shu off the power completely, unplug the power cord from the outlet.

Use the SPEAKERS (1 or 2) buttons to select the set of speakers that you want to listen to. If no button is preased, no sound will come from the speakers.

2. Select Speakers or Noadpheaes (p. 10)

If you want to use headphones, insert their plug in the PHONES jack on the bottom left of the front of the amplifier.

Node: If one or both of the SPEAKERS buttons are pressed, the speakers will still emit sound when the headphones are used.

Select the source to listen to either by turning the SOURCE SELECTOR dial on the amplifier (press the TAPE 2 MONITOR button for the second tape deck (TAPE 2)), or by pressing the desired key on the remote control unit (TUNER, CD (P.), PHONO (P.), TAPE 1 (P.), TAPE 2 MONITOR, or AUX/VIDEO).

. Select Listening/ Recording Source (p. 9)

. Operate Source Equipment

follow the directions for operating source equipment as printed in their respective instruction

If you are using IVC components linked to the amplifier with the COMPU LINK system, they can also be operated using the remote control unit of the amplifier or through the SOURCE SELECTOR dial on the main amplifier unit. (See pp. 12–14 for further details on the COMPU LINK system).

To adjust the volume, either turn the MASTER VOLUME dial on the amplifier or press the VOLUME keys on the remote control unit. The FADE MUTING on the remote control unit can also be used for quick muting of the sound.

5. Adjust Volume, Tops, and Balance (pp. 10,11)

To adjust the bass or treble levels, turn the BASS or TREBLE dist, respectively on the amplifier. When the volume is low, press the LOUDNESS button on the amplifier to compensate for human bearing capacities at certain frequencies. To adjust the balance between left and right speakers, turn the BALANCE dist.

## Selecting Source

This section describes how to select the source for listening or recording from the various stereo components connected to the amplifier.

## Selecting Source for Listening

Selecting Source for Listening

Turn the SOURCE SELECTOR dial on the amplifier to one of the listening sources as described below. The indicator lights up on the selected source.

TAPE 1: Select this to listen to a cassette in the tape deck connected to TAPE PHONO: Select this to listen to a record.

CD: Select this to listen to a CD.

Select this to listen to a CD.
Select this to listen to the radio.

TUNER:

AUX/VIDEO: Select this to listen to the component connected to the AUX/VIDEO jack of the amplifier.

Note: The SOURCE SELECTOR dial can be continuously in either direction, as follows:



TAPE 2 MONITOR

To listen to the second tape deck (TAPE 2)press the TAPE 2 MONITOR button. The TAPE 2 MONITOR indicator will light up. Press the TAPE 2 MONITOR again to turn the indicator off.

Note: When you switch the source with the TAPE 2 MONITOR on, the sound will be cut off momentarity. This does not indicate a problem.

Instead of using the SOURCE SELECTOR dial on the amplifier, you can also choose the listening source by using the remote control unit. Press one of the six keys on the left of the remote control unit — TUNER, CD (PP.) PHONO (PP.) TAPE I (PP.) TAPE 2 MONITOR, or AUX/VIDEO — as illustrated left.

## Selecting Source for Recording

To select the source for recording, use the SOURCE SELECTOR dial on the amplifier or press one of the source keys on the remote control unit. Output will be made through the output jacks of both TAPE 1 and TAPE 2. However, the following combinations cannot be used:

Selecting Source for Recording INPUT OUTPUT

TAPE 1 — x → TAPE 1

TAPE 2 — x → TAPE 1

TAPE 2 — x → TAPE 2

Note: To dub from one cassette tape to another, place the source cassette in the first tape deck (TAPE 1) and a blank cassette in the second one (TAPE 2), set the SOURCE SELECTOR dial on TAPE 1, and record with the second tape deck.

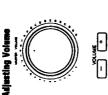
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### Page 11

## Adjusting Volume, Balance and Tone (and Loudness)

This section describes how to adjust the volume, balance, tone and loudness settings when listening to the selected source.

## Adjusting Volume and Selecting Speaker



speakers and headphones. Turn the dial clockwise to raise the volume and counterclockwise

to lower it. Both left and right channels are adjusted simultaneously and to the same degree.

You may also use the remote cointrol unit to adjust the volume. Press the VOLUME + key to raise the volume and the VOLUME - key to lower it. The MASTER VOLUME dial on the amplifier is used to adjust the volume levels of the

# Note: Adjusting the MASTER VOLUME dial has no effect on the recording level used for

The FADE MUTING button on the remote control unit is used to lower the volume to the mute level. Press it when you need to mute the sound: for example, when the phone rings or a visitor calls.

ecording output

FADE MUTING

Muting Sound

If the original volume level is extremely loud, pressing this key once may not lower it To raise the volume again, use the MASTER VOLUME dial on the amplifier or the sufficiently. If so, press it again.

The SPEAKERS 1 and 2 buttons on the amplifier are used to select which set of speakers to listen from. You may also listen to both sets of speakers, if desired, or none at all. Use the none (headphones only) SPEAKER SET HEARD 1 & 2 juide below to determine the listening arrangement. VOLUME keys on the remote control unit. **BUTTONS PRESSED** 1 & 2 none

Selecting Speakers

1 SPEAKERS 2

luser the headphones into the PHONES jack under the POWER switch on the front of the amplifier. To listen to only the headphones and not the speakers, makes sure that both SPEAKERS 1 and 2 buttons are in the up (deactivated) position.

## Adjusting Balance and Tone (and Loudness)

The BALANCE dial on the amplifier is used to control the relative sound of the left and right channels. Turn it to the left as far as necessary to shift the balance of the sound to the left, and to the right to shift the balance of the sound to the right.

Adjusting Left/Right Balance

Note: The balance of the headphone sound will also be affected. (These settings do not affect the recording output.) The BASS dial and TREBLE dial on the amplifier are used to adjust the level of low and high frequencies, respectively. Turn either or both of the dials clockwise to intensify the respective settings, and counterclockwise to lower them.

Adjusting Base and Trable Levels

The headphone sound will also be affected. (These settings do not affect the recording Leave the dial settings at DEFEAT to leave the bass and/or treble settings unchanged.

The LOUDNESS button is used to switch the loudness function on or off. This function is iseful at low volume levels, boosting lower and higher frequencies as our ears are not so sensitive to them when the volume is kept low. Press the button to turn on the loudness

Using Loudness Function at Low Volume Levels

MONITOR jacks in the rear of the amplifier, you can make finer adjustments to various frequency levels. To listen to sound processed by the graphic equalizer, turn the SOURCE SELECTOR dial to the desired source, and press the TAPE 2 MONITOR button on the If you have connected a graphic equalizer (JVC's S.E.A. is recommended) to the TAPE 2 umplifier or the remote contorl unit. The TAPE 2 MONITOR indicator will light up. function (button down), and press it again to turn it off (button up).

**Jaing Graphic Equalizer** 

LOUDNESS

0

## Minimizing Sound Processing (Source Direct)

The SOURCE DIRECT button is used to shorten the circuit route taken by the sound signal during processing, resulting in more realistic sound reproduction. Press this button to enable this function (button down), and once again to disable it (button up).

Using Source Direct Function

TAPE 2 MONITOR

0

Notes: The BALANCE, BASS and TREBLE dials cannot be used when the SOURCE DIRECT function is turned on. The volume and loudness settings may be adjusted, however.

SOURCE DIRECT

0

O

Listening to Headphones

# Using Compu Link System and Remote Control

## COMPULINK |||||Remote||||| Control System

The AX-R5BK amplifier features the COMPU LINK-3 system, an upgraded version of COMPU LINK-1, which links each JVC component in your system for easier listening and recording. It can be operated either through the remote control unit or the amplifier directly

## Using COMPU LINK 3 System

if you have connected JVC components to the amplifier using the COMPU LINK-3 SYNCHRO acks in the rear panel of the amplifier, the following functions will be available. You may ulso operate COMPU LINK through the remote control unit; see the next page for details. Note: Some functions described here will not be available with components that feature the

earlier COMPU LINK-1 system.

To listen to a source without the COMPU LINK system, you must turn on both the amplifier and the component, choose the desired component with the SOURCE SELECTOR dist. load

Make Simple One-Touch Selection and Replay

components (either switched on or off), as long as the source material is already loaded. This action will automatically turn on both the amplifier and the component (without turning on With COMPU LINK-3, all you need to do is press the play button on any of the linked the other components), turn the SOURCE SELECTOR dial to that component, and start the source material, and press the play button. playing the source material.

Note: If the component you have chosen features COMPU LINK-1, you must turn it on first before pressing the play button If you later turn the SOURCE SELECTOR dial to another source, the previously used component will stop playing after five seconds (it will not, however, turn off). If the newly selected source component is already turned on, it will play immediately. If it is in the standby node, however, play will begin after the component is turned on.

- equipment connected to the AUX/VIDEO jack of the amplifier.
  Do not try to connect the COMPU LINK cable to DAT (digital audio tape) players, MD You cannot use the COMPU LINK system with the second tape deck (TAPE 2) or any
  - (mini-disc) players, or DCC (dgiral compact cassette) players.
- Since the outlets on the rear of the amplifier are switched—meaning that they only receive
  power when the amplifier is turned on—some of the functions in the COMPU LINK system may not work if components are plugged in to those outlets.
  - To use COMPU LINK, you must connect each of the components to a wall outlet, and leave each component in a standby state.

### Make Synchronized Recordings

If a disk has been placed in a CD player or on a turntable, the tape deck can made to initiate a synchronized recording, as follows:

- Press the REC and PAUSE buttons on the cassette deck simultaneously, setting it to the Place a blank tape in the cassette deck and a disk in either the CD player or turntable
- Note: The synchronized recording feature will not work if these bustons are not pressed

imultaneously.

Page 12

Page 13

when the disk starts playing. When the disk finishes playing, the cassette deck will switch back to the REC/PAUSE mode, and will stop four seconds later. Press the PLAY button on the CD player or turntable. The cassette deck will start recording

- The SOURCE SELECTOR cannot be switched during synchronized recording, as it will be locked to either CD or PHONE.
- If your CD player is in the programmed mode, a four-second mute will be recorded between tracks to enable the cassette deck's music scan feature to work.
- Synchronized recording will not work properly if the power for any connected equipment is shut off while recording is taking place. Start all over again in such a case

## Using Remote Control Unit

volume adjustment (including mute), and operation of JVC components (connected with the amplifier using the COMPU LINK system). This section describes how to use the remote Your AX-R3BK amplifier features a remote control unit, allowing for source selection

- Make sure to point the remote control unit at the REMOTE SENSOR window under the
- POWER switch of the amplifier. The range of the remote control is 7 m (22  $\beta$ ). VCRs are is excluded from the COMPU LINK system. When you operate a VCR, aim the remote control unit at the VCR directly.

The simple operation keys on the remote control unit of the AX-R5BK can be used to operate

a CD player, a turntable, the first cassette deck (TAPE 1), and a tuner that are

connected to your system.

To start playing the CD player, turntable, or first cassette deck, press the respective 🕨 key on

the remote control unit. Press the **n** key to stop these components from playing

The numeric keys can be used to select the track numbers on the CD, the TV channels for the

VCR, and the preset channels for the tuner.

Pressing the CD (>>) key sets the numeric keys of the remote control unit to the CD player

## Using Simple Operation Keys and Numeric Keys







mode. These keys can then be pressed to specify the desired track number on the CD. The 10 KEY/VCR key is used to operate the VCR. Pressing this key sets the numeric keys to the VCR mode. Likewise, the TUNER key is used to operate the tuner. Pressing it sets the  Note: As the response of the numeric keys depends on the particular component, refer to that component for further information on the operation.

### Using Extended Operation Keys

The extended operation keys on the remote control unit of the AX-RSBK are used to operate the first cassette deck (TAPE 1) or a VCR. These operations are more extensive than those allowed by the simple operation keys. To operate the cassette deck using the extended operation, first press the CONTROL key marked TAPE I. The operation keys (under the CONTROL keys) are then set to the cassette deck mode, as follows:

Stope operation completely.

Starts recording when PLAY (>) key pressed simultaneously, and initiates recording standby mode when pressed with the STILL/PAUSE STILL/PAUSE (11): Stope playing/recording temporarity.
STOP (III): Stope operation completely.
Starts recording when PLAY (▶) ka

(II) key.

Starts fast wind (right to left). ₽£AY (♥); ▼ !!

Starts playing. Starts fast wind (left to right).

To operate the VCR using the extended operation keys, first press the CONTROL key marked VCR. The operation keys are then set to the VCR mode, as follows.

€ • • •

Starts recording when PLAY (>) key pressed simultaneously, and initiates recording standby mode when pressed with the STILL/ Freezes image during play, or stops recording temporarily. Stops operation completed STILL/PAUSE (III): STOP (III): REC (e):

Fast winds (fast forward) the videotape. Starts playing. PLAY (♥):

Rewinds the videotape. PAUSE (III) key.

If you have connected IVC components to the amplifier using the COMPU LINK remote

control system, they can be operated using the remote control unit.

## Troubleshooting

LIBORIE	LOGREDIC CHIRECES	Action(s)
Amplifier does not play.	Power cord not plugged in.	Plug Power cord in AC outlet.
No sound heard from any speakers.	SPEAKERS buttonts) not pressed, or SOURCE SELECTOR dial set incorrectly.	Press SPEAKERS buston(s), or turn SOURCE SELECTOR dist to destred source
Sound heard from only one speaker.	Speaker cables not connected properly, or BALANCE dial turned all the way to right or left	Check speaker cables and reconnect if necessary, or adjust BALANCE dial so both speakers emil sound.
Howling during record playing.	Turntable too close to a speaker.	Move speakers away from the turntable.

## Specifications

Model Name: JVC AX-R5BK Remote Control Integrated Ampliffer

45W per channel into 8th at 1kHz with maximum 0.7% total harmonic distortion. 60W per channel into 4Ω at 1kHz with maximum 0.7% total harmonic Output Power (IEC 268-3/DIN):

40W per channel, min. RMS, with both channels driven into 8t2 from 20Hz to 20kHz with maximum 0:007% total harmonic distortion. (JVC Audio Analysis System)

0.003%\* at 40W (at 1kHz, 8D loaded) 0.007%\* at 40W (from 20Hz to 20kHz, 8D loaded) 0.05%\* at 40W (from 20Hz to 20kHz, 8D loaded, -30dB volume) Total harmonic distortion All sources exc. PHONO in, SPEAKERS out:

PHONO IN, SPEAKER OUT

 $5 \rm Hz$  to  $50 \rm kHz$  (1HF, both channels driven into  $8 \Omega_c$  no more than 0.05% total narmonic distortion) 70 (at 1kHz, 8Ω loaded) Damping Factors Power bandwidth:

Signal-to-noise ratio ('66 IMF/DIN)
All sources exc. PHONO:
PHONO:

200mV/47kΩ Output Level/Impedance (I kHz) TAPE 1, TAPE 2 MONITOR: Input Senaitvity/Impedance (f kHz)
All sources exc. PHONO:
PHONO:

18 dB at 100 Hz 18 dB at 10 kHz 200mV/1kΩ Tone control range BASS: TREBLE:

+6dB at 100Hz, +4dB at 10kHz Prequency Response (8Ω): 5 Hz to 80 kHz (+0 dB, -3 dB) LOUDNESS (~30dB volume):

90mV (maximum 0.02% total harmonic distortion) ±0.3dB (from 20Hz to 20kHz) PHONO Overload Capacity (PHONO in, TAPE 2 MONITOR out):
MM RIAA phone equalization

AC 230V, 50Hz/160W AC 240V, 50Hz/155W AC 110/127/220/240V switchable, 50/60Hz/160W Power Requirementa/Consumption Continental Europe: U.K.: Other Areas:

435mm (W) x 127mm (H) x 308.5mm (D) (17-3/16in x 5in x 12-3/16in) 7.2kg (15.9lbs) Weight \*Measured by JVC Audio Analysis System Note: Designs and specifications are subject to change without notice.

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Page 14

### Description of ICs

- MN17P1602JYJ (IC901) : SYSTEM CONTROLLER
- 1. Terminal Layout

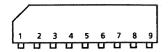
	***************************************		WAS THE PROPERTY OF THE PARTY O	
VDD	1	$\cup$	64	OSC1
PHONO	2		63	OSC2
CD	3		62	GND
TUNER	4		61	
AUX	5		60	GND
TAPE 1	6		59	AC RY
TAPE 2	7		58	
	8		57	
VOL. IND	9		56	
	10		55	
	11		54	RM. IND
	12		53	VOL. DOEN
	13		52	VOL. UP
	14		51	
	15		50	
	16		49	
	17		48	DCS OUT
-VSS	18		47	DCS IN
KEYOUT1	19		46	
KEYOUT2	20		45	INH. IN
KEYOUT3	21		44	RM. IN
KEYOUT4	22		43	RST
KEYOUT5	23		42	S OUT
KEYOUT6	24		41	S STB
	25		40	SCK
	26		39	
S.SELECT1	27		38	
S.SERECT2	28		37	
	29		36	GND
	30		35	GND
TAPE2 SW	31		34	POWER SW
MUTE	32		33	
	L			l.

### 2. Description

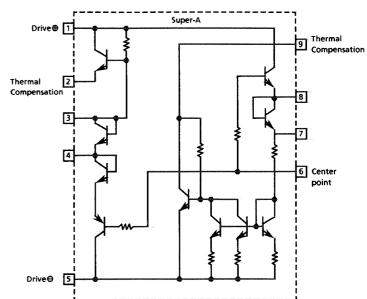
<b>д</b> илиципониния		·		Promonente como como como como como como como com		· · · · · · · · · · · · · · · · · · ·	
Pin No.	Symbol	1/0	Description	Pin NO.	Symbol	1/0	Description
1	VSS	-	Power supply (+5V)	33			
2	PHONO	0	Indication control	34	Power sw	I	Power ON/OFF control
3	CD	0	Indication control	35			
4	TUNER	0	Indication control	36			
5	AUX	0	Indication control	37		- Constitution	
6	TAPE1	0	Indication control	38		***********	
7	TAPE2	0	Indication control	39		- Constantinus	
8		Symmetry and the second		40	SCK	0	Date latch clock for IC151
9	VOL.IND	0	Indication control	41	S STB	0	Strobe for IC151
10		gamanan.		42	S OUT	0	Date for IC151
11				43	RST	Ī	Reset signal input
12				44	RM. IND	0	Indication control
13				45	INH. IN	T I	Inhibit signal input
14				46			
15				47	DCS IN	ı	Conpulink signal input
16		g		48	DCS OUT	0	Conpulink signal output
17		Samonan		49			
18	-VSS		Power supply	50			
19	KEYOUT1	0	Key matrix output	51		1	
20	KEYOUT2	0	Key matrix output	52	VOL. UP	0	Volume:control signal
21	KEYOUT3	0	Key matrix output	53	VOL. DOWN	0	Volume control signal
22	KEYOUT4	0	Key matrix output	54	RM. IN	I	Remote contorol signal input
23	KEYOUT5	0	Key matrix output	55			
24	KEYOUT6	0	Key matrix output	56			
25				57			
26				58			
27	S.SELECT1		Key matrix input	59	AC RY	0	Relay control
28	S.SELECT2		Key matrix input	60	GND	<u> </u>	GND
29				61			
30				62	GND	_	GND
31	TAPE2\$W		TAPE2 MONITOR control	63	OSC2	<u> </u>	Oscillation terminal
32	MUTE	0	Muting control	64	OSC1	-	Oscillation terminal

### **VC5022-2 (IC501,502)**: SUPER A.

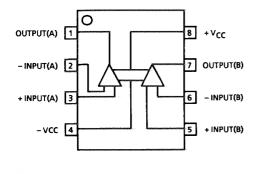
### (1) Terminal Layout



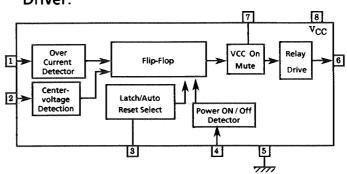
### (2) Block Diagram



### VC4580DD (IC101),VC4580D(IC152): Low noise Dual op Amp.

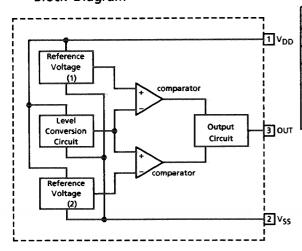


### **■** µPC1237HA (IC 901) : Protector, Relay Driver.



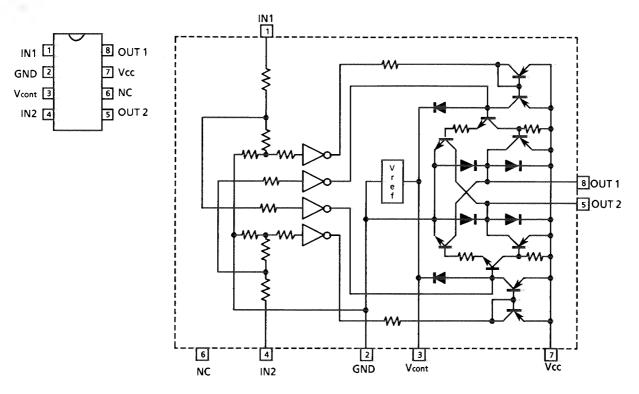
### PST7046: IC702 RESET IC

### **Block Diagram**



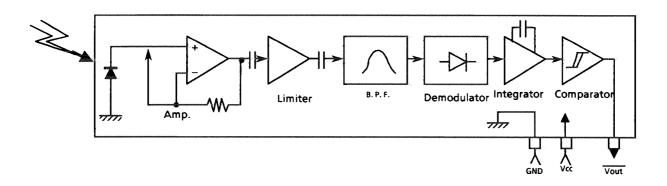
Pin No.	Pin Name	Functions
1	$V_{DD}$	Power supply
2	Vss	Ground
3	OUT	Reset signal output: Low level is output when resetting: High level is output when cancelling the reset.

### LB1639-CV (IC581): Motor Driver



IN 1	IN 2	OUT 1	OUT 2	MOTOR
Н	L	Н	L	CLOCKWISE
L	Н	L	Н	COUNTER-CLOCKWISE
Н	Н	OFF	OFF	WAITING
L	L	OFF	OFF	WAITING

### ■GP1U501X(IC203): Receiver for remote controller



### **Disassembly Procedures**

### 1. Removing the Top Cover

- 1) Remove the 4 screws fastening both sides of the Top Cover, and the 2 screws fastening the rear sides.
- 2) Remove the Top Cover.

### 2. Removing the Front Panel

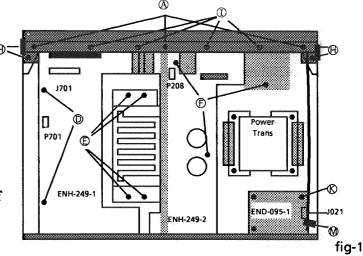
- 1) Remove the 3 screws (A) fastening top of the Front Panel.
- 2) Remove the 4 screws ① fastening bottom of the Front Panel.
- 3) Remove the Metal Front Panel.
- 4) Cut the tie band M.
- 5) Disconnect the connectors J021,J701 and P208.
- 6) Remove the 5 knob (MASTER VOLUME, SOURCE SELECTOR etc.).
- 7) Remove the 5 nut ® and 3 screws ©.
- 8) Remove the hooks (1) holding the bracket.
- 9) Remove the Front Panel.
- 10) Remove the screw © fastening the Powre SW. PCB. And remove the nut ① fastening the source selector PCB.

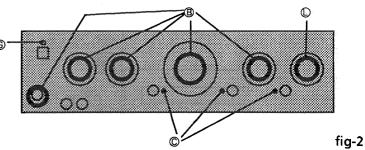
### 3. Service procedures of Main PCB

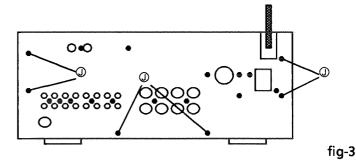
- 1) Remove the 9 screws  $\mathbb{O}$ ,  $\mathbb{E}$  and  $\mathbb{E}$  on the Main PCB. And Remove the screw  $\mathbb{C}$ .
- 2) Remove the 4 screws fastening the Trans.
- 3) Remove the 6 screws ①.
- 4) Separate the Main PCB with the front panel, rear panel and trans from the chassis base as shown in fig-4.

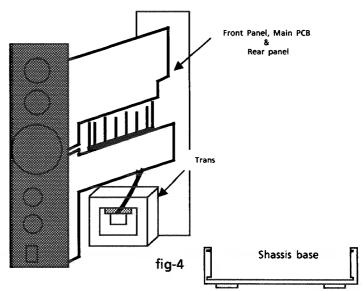
### (NOTE)

Take care not to short-circuit the filter condenser C811 and C812.





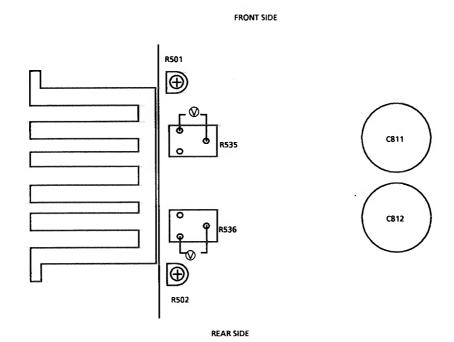




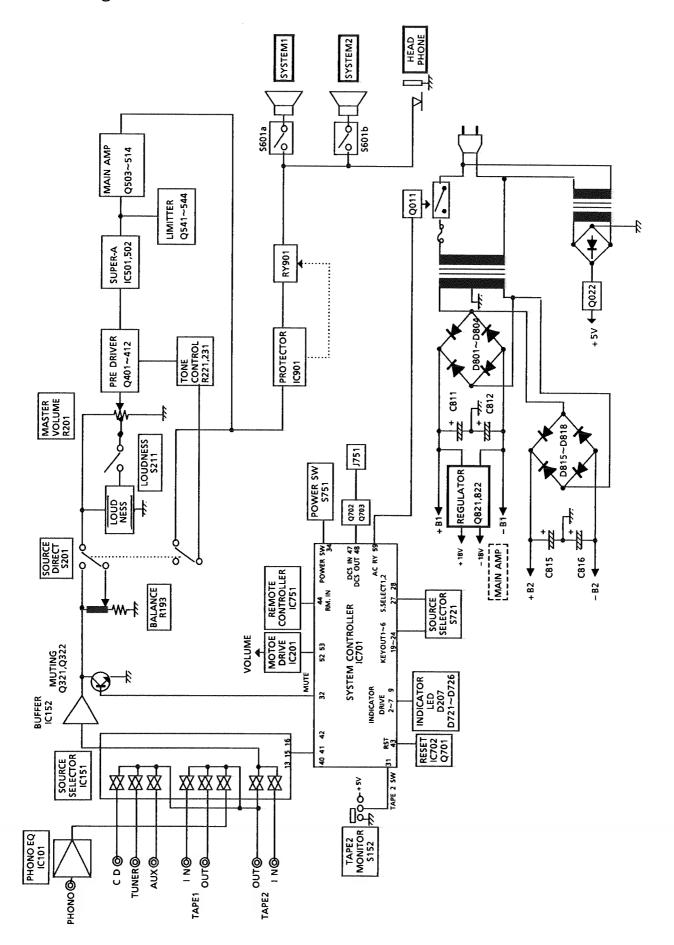
### Power Amplifier Adjustment Procedures

### Idling Current

- 1) Set the volume control to minimum during this adjustment.
- 2) Turn R501 and R502 fully counterclockwise before the power switch on.
- 3) Always start from cold, and allow 15 minutes to warm up before adjustment. If the heatsink is already warm from previous use the correct adjustment can not be made.
- 4) Connect a DC voltmeter to R535 resistor's leads for left channel, or to R536 for right channel.
- 5) Adjust R501 for left channel, or R502 for right channel, so that the DC voltmeter becomes  $7mV\sim13mV$ .

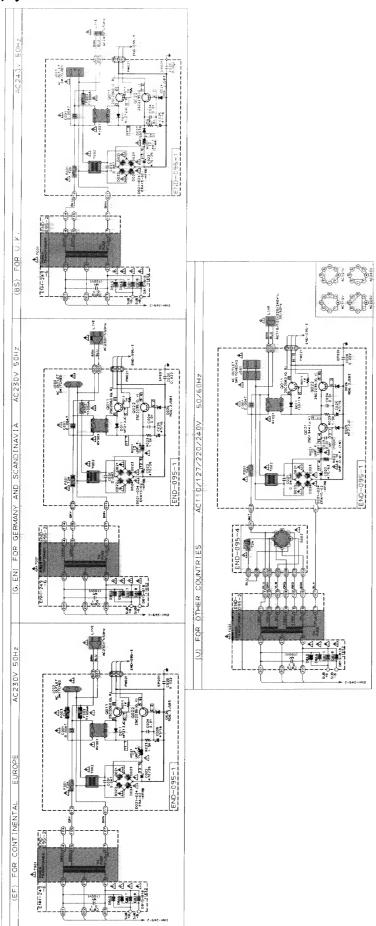


### Block Diagrams

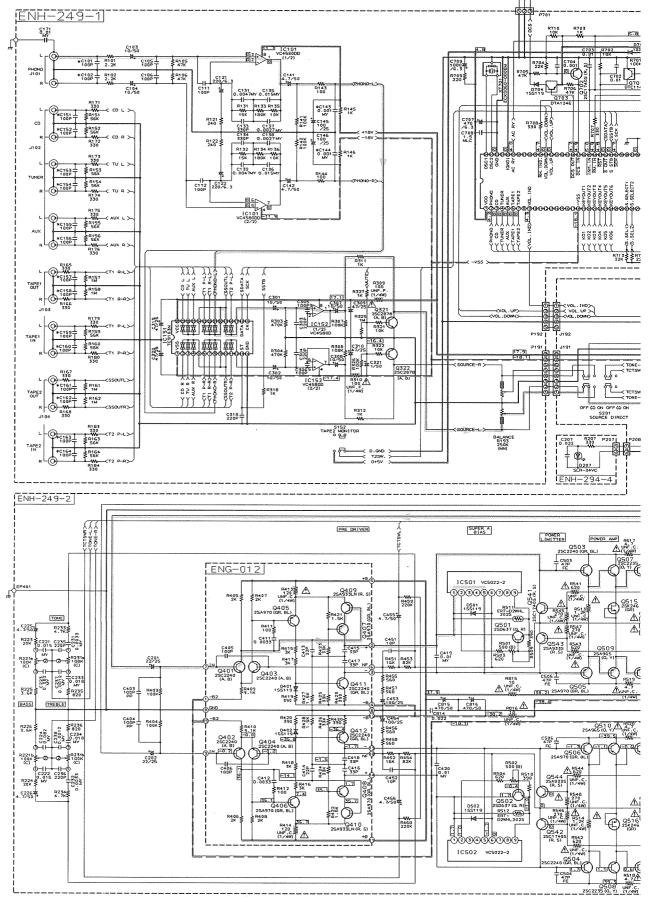


### Schematic Diagams

### (1) Power Suppiy Section

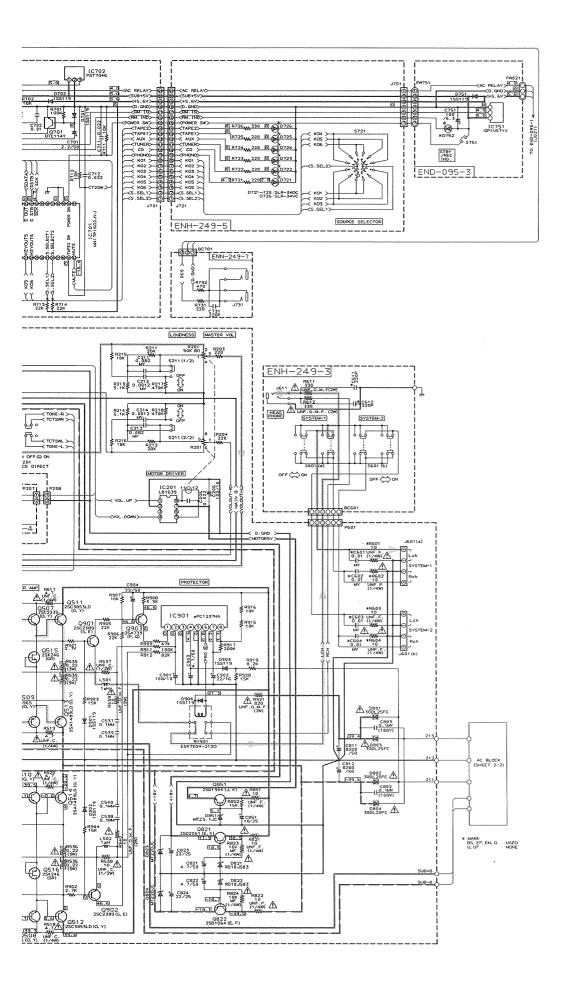


### (2) Amplifier Section



### Notes:

- 1. indicates +
- 2. ---- indicates -
- 3. indicates ma

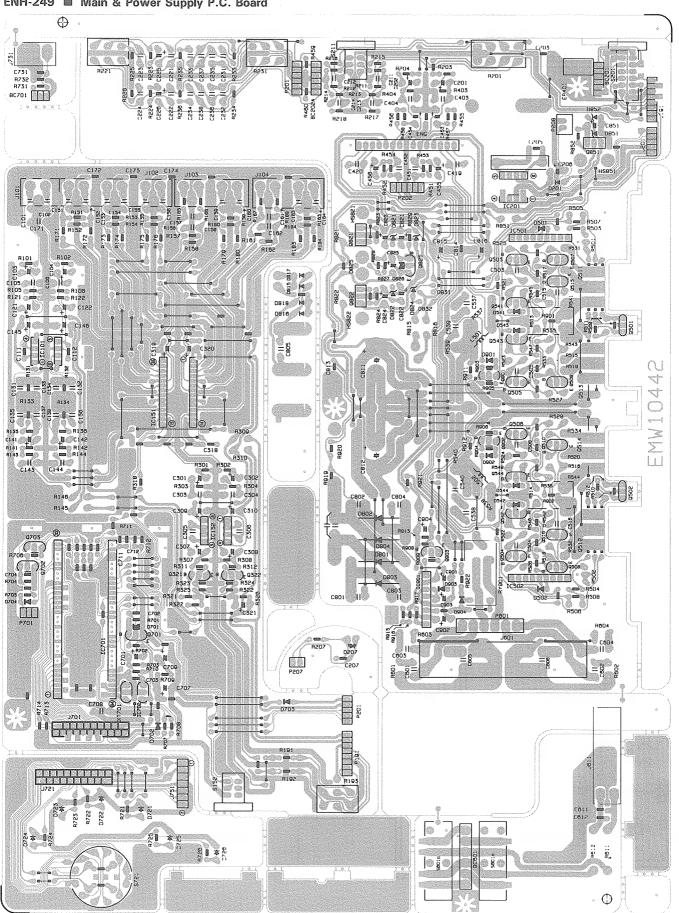


ates +B power supply ates -B power supply. ates main path.

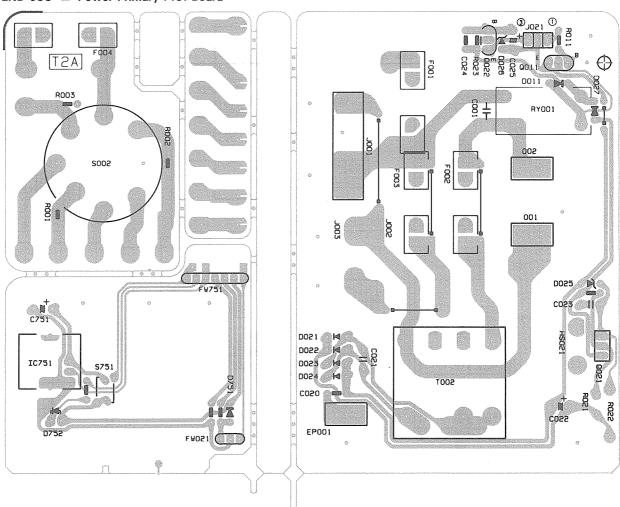
4. When replacing the parts in the shaded are ( ) and those marked with  $\Delta$  , be sure to use the designated parts to ensure safety.

### Printed Circuit Boards

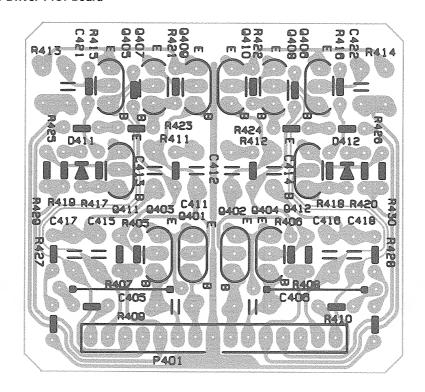
ENH-249 Main & Power Supply P.C. Board



END-095 Power Primary P.C. Board



ENG-012 Pre. Driver P.C. Board



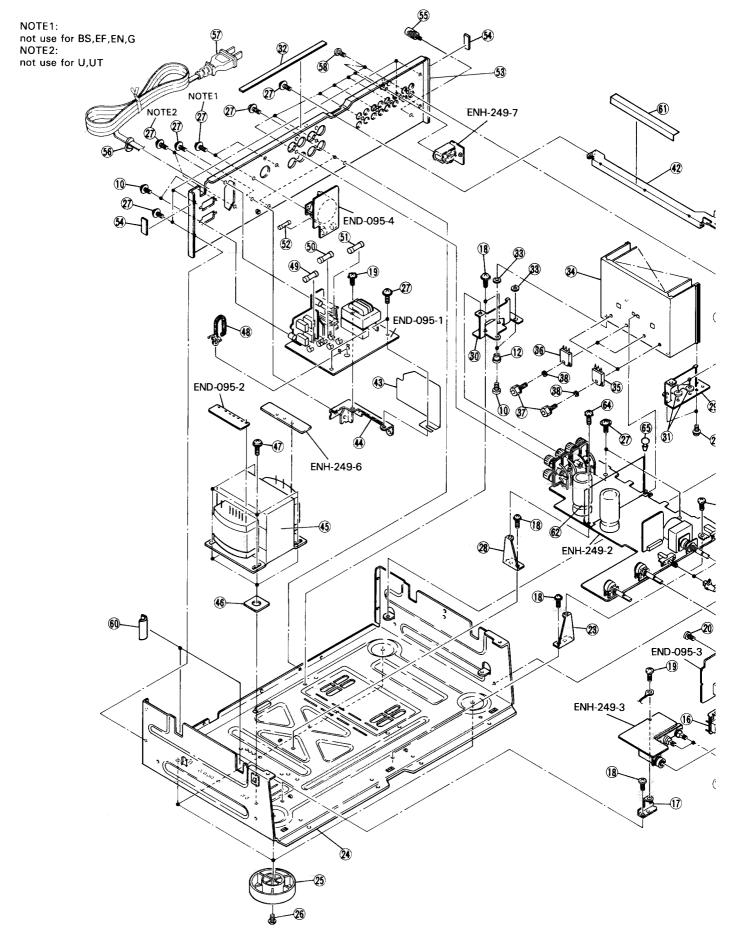
### **PARTS LIST**

Note: All printed circuit borads and its assemblies are not available as service parts.

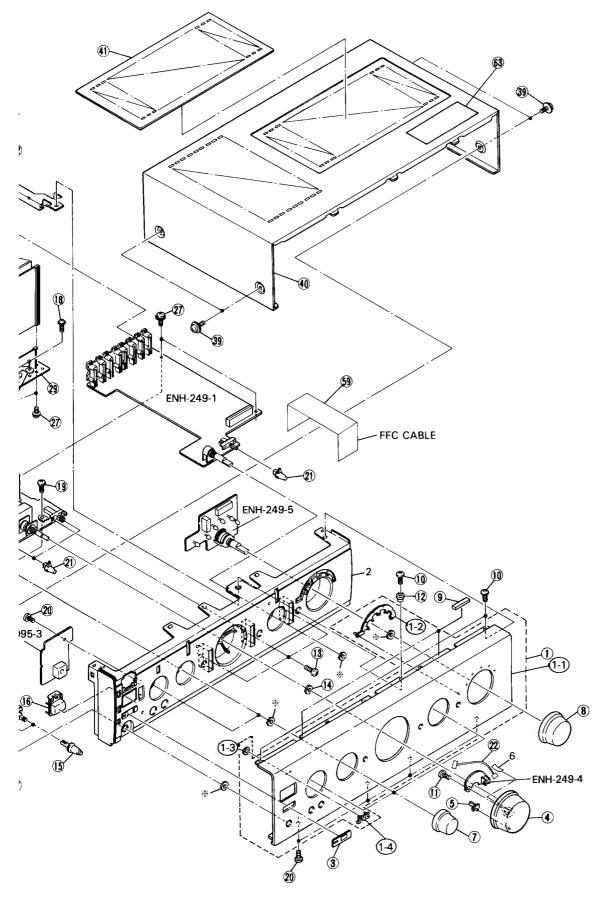
### **Contents**

General Exploded View and Parts List	2 - 3
Printed Circuit Board Ass'y and Parts List	
■ ENH-249 Main & Power Suppliy PC Board Ass'y	2 - 8
■ ENG-012 A Pre. Driver PC Board Ass'y	2 - 13
■ END-095 Power Primary PC Board Ass'y	
Accessories List	2 - 16
Packing Materials and Part Numbers	2 - 17

### **General Exploded View and Parts List**



Symbol No. M 1 M M



\* Accessories

M 1 M M Symbol No. Parts List  $\Lambda$ Item Part Number Part Name Q'ty Description Area 1 EFP-AXR5BKE(S) FRONT PANEL ASSY 1 1-1 E208190-008 **FRONT PANEL** 1 1-2 E308993-001 **INDICATOR** 1 1-3 E60912-003 **SPEED NUT** 1 E72968-001 1-4 JVC MARK 1 2 E102876-004 FRONT BASE 1 3 E406592-001 **REMOCON SCREEN** 1 4 E308989-003 VOL.KNOB 1 5 E408144-002 **INDICATOR** 1 6 E408294-001 **SPACER** 1 7 E308097-005 **TONE KNOB** 3 8 E308096-010 **SEL.KNOB** 1 q E306805-092 **SPACER** 2 10 SDSG3008CC **TAPPING SCREW** 5 SDSG3008CC **TAPPING SCREW** 2 SDSG3008CC **TAPPING SCREW** 2 11 SDSF2608Z **SCREW** 1 **BUSH-PUL** 12 **BUSHING** 3 SBST3008CC 13 **TAPPING SCREW** 3 E71862-001 14 **VOLUME NUT** 15 E407110-002 **PUSH BUTTON** 2 16 E407173-002 POWER BUTTON 1 17 E408143-002 **C.B BRACKET** 1 18 GBST3006CC **TAPPING SCREW** 7 19 E74266-002 SPECIAL SCREW 3 20 SDSF3008M **TAPPING SCREW** 5 21 E407321-002SM **PUSH BUTTON** 3 22 EWS142-042 **SOCKET WIRE** 1 23 E408149-001 **C.B BRACKET** 1 24 E102877-004ST **CHASSIS BASE** 25 E307427-007 **FOOT ASSY** 4 UT E307427-007 **FOOT ASSY** 4 U E307427-008 **FOOTASSY** 4 ΕF E307427-008 **FOOTASSY** 4 ΕN E307427-008 **FOOTASSY** 4 G E307427-008 **FOOTASSY** 4 BS 26 GBST3008CC **TAPPING SCREW** 4 27 GBSG3006CC **SCREW** 20 28 E408149-002 **C.B BRACKET** 1 29 E308991-002 **HEAT SINK BRACKET** 1 30 E308991-001 **HEAT SINK BRACKET** 1 31 WBS3000CC **WASHER** 2 32 EXO080005N20S **SPACER** 1 33 E73967-001 **SPACER** 2 34 E308990-001ST **HEAT SINK** 1 35 2SC3853LD(O,Y) SI.TRANSISTOR 2 Q511,Q512 36 2SA1489LD(O,Y) SI.TRANSISTOR 2 Q513,Q514 37 E73525-003 **SCREW** 4 38 WNS3000CC **WASHER** 4 39 E61660-004 **SPECIAL SCREW** Δ 40 E26753-003 **METAL COVER** 1 41 E306233-002 **PROTECT SHEET** 1 ΕN E306233-002 **PROTECT SHEET** 1 EF E306233-002 PROTECT SHEET 1 BS E306233-002 PROTECT SHEET ŲΤ

$\triangle$	ltem	Part Number	Part Name	Q'ty	Description	Area
	41	E306233-002	PROTECT SHEET	1		U
	42	E308992-001	STAY BRACKET	1		
	43	E309139-001	PROTECT COVER	1		U
		E309139-001	PROTECT COVER	1		UT
	44	E406074-001	C.B BRACKET	1		
$\Lambda$	45	ETP1100-52EA	POWER TRANSFORMER	1		G
$ \Lambda $		ETP1100-52FA	POWER TRANSFORMER	1		UT
$\Lambda$		ETP1100-52FA	POWER TRANSFORMER	1		U
$\Lambda$		ETP1100-52EA	POWER TRANSFORMER	1		EF
$ \Lambda $		ETP1100-52EA	POWER TRANSFORMER	1		EN
$\Lambda$	***************************************	ETP1100-52EABS	POWER TRANSFORMER	1		BS
	46	E407337-001	SPACER	4		
	47	E61661-003	SPECIAL SCREW	4		
	48	E307572-001	FASTENER	1		
$\Lambda$	49	QMF51E2-2R0	FUSE	1		EN
$\Lambda$		QMF51E2-2R0	FUSE	1		G
$ \Lambda $		QMF51E2-4R0	FUSE	1		U
$\Lambda$		QMF51E2-2R0BS	FUSE	1		BS
$ \Lambda $		QMF51E2-2R0	FUSE	1		EF
$ \Lambda $		QMF51E2-4R0	FUSE	1		UT
$\Lambda$	50	QMF51E2-1R0	FUSE	1		EF
$ \Phi $	51	QMF51E2-R10	FUSE	1		G
$ \Lambda $		QMF51E2-R10BS	FUSE	1		BS
$ \Lambda $		QMF51E2-R10	FUSE	1		EF
$\Lambda$		QMF51E2-R10	FUSE	1		EN
$\Lambda$	52	QMF51E2-2R0	FUSE	1	TO THE REAL PROPERTY OF THE PR	UT
$ \Lambda $		QMF51E2-2R0	FUSE	1		U
	53	E208192-004	REAR PANEL	1		G
		E208192-004	REAR PANEL	1		EF
	NO TO THE OWNER OF	E208192-006	REAR PANEL	1		UT
		E208192-005	REAR PANEL	1		BS
		E208192-004	REAR PANEL	1		EN
1 1		E208192-006	REAR PANEL	1		U
	54	EXO020010R10S10	SPACER	2		
	55	E408091-001	GROUND TERMINAL	1		
Δ	56	QHS3771-108	CORD STOPPER	1	- Control of the Cont	EN
$ \Lambda $		QHS3771-108	CORD STOPPER	1		UT
$ \Psi $		QH\$3771-108B\$	CORD STOPPER	1		BS
$ \Lambda $		QHS3771-108	CORD STOPPER	1		U
$\Lambda$		QHS3771-108	CORD STOPPER	1		G
$ \Lambda $		QHS3771-108	CORD STOPPER	1		EF
$ \Lambda $	57	QMP3900-200	POWER CORD	1		EN
⚠		QMP5530-0085BS	POWER CORD	1		BS
$ \Lambda $		QMP3900-200	POWER CORD	1		EF
$\Lambda$		QMP7520-200	POWER CORD	1		UT
$\Lambda$		QMP7520-200	POWER CORD	1		U
$\Lambda$		QMP3900-200	POWER CORD	1		G
	58	E73273-003	SPECIAL SCREW	8		
	59	VWF1221-12TTB		1		
			FFC CABLE	1		
	60	E306805-104	SPACER	2		

$\Lambda$	Item	Part Number	Part Name	Qʻty	Description	Area
	61	E306805-139	SPACER	1		
	62	E408446-001	SHIELD PLATE	1		
	63	E67000-005	CAUTION LABEL	1		
	64	SBSG3008CC	TAPPING SCREW	1		
	65	E48729-009	PLASTIC RIVET	1		
	-	E408450-094	CE LABEL	1		BS
	-	E408450-094	CE LABEL	1		EF
	-	E408450-094	CE LABEL	1		EN
	-	E408450-094	CE LABEL	1		G
	-	QZL1031-101	LABEL	1		EF
	-	E70027-001	LABEL	1		EN
	-	E407619-032	FTZ LABEL	1		G
	-	E308522-044	AX-R5BK R.LAB	1		UT
	-	E61029-005	NUMBER LABEL	1		

**<b>≜**SAFETY PARTS

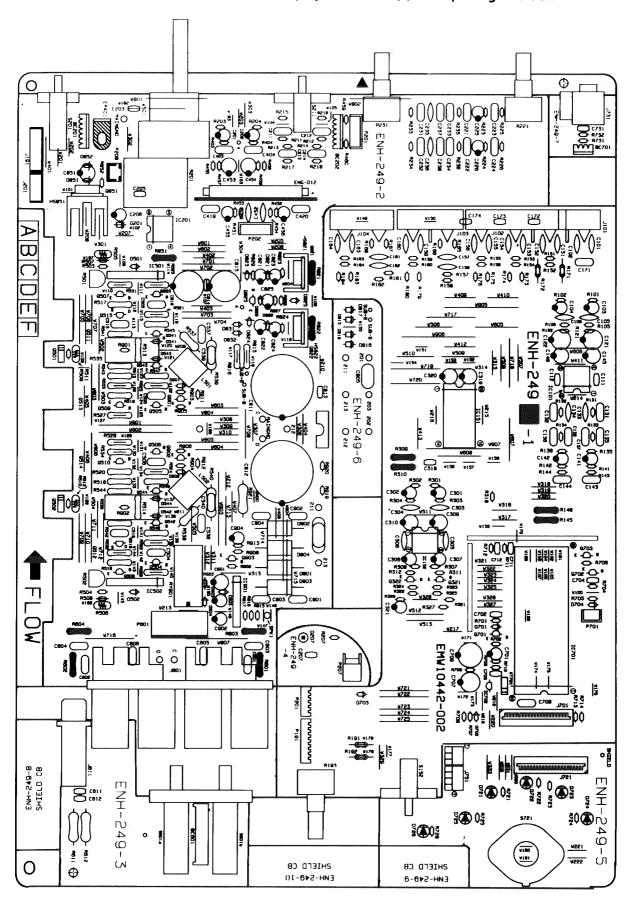
### The Marks for Designated Areas

G ..... Germany U ..... Universal Type BS ..... the U.K. UT .... Taiwan

EF .... Continental Europe EN .... Scandinavia No mark indicates all area.

### Printed Circuit Board Ass'y and Parts List

Note: ENH-249 varies according to the areas employed. See note (1) when placing an order.



### Note (1)

PC Board	Ass'y	Version	Designated Areas
ENH-249	A	G	Germany
ENH-249	В		Scandinavia Continental Europe
ENH-249	C	BS	the U.K.
ENH-249	D	U UT	Universal Type Taiwan

### TRANSISTORS

$\Lambda$	LTEM	PART NUMBER	DESCR	IPTION	AREA
413	1 1 15 IVI	IAKI NOMBEK	DESCR	1	AKEA
1	Q321	2SC2878(B)	SI.TRANSIST		
l	Q322	2SC2878(B)	SI.TRANSIST		
1	Q501	2SD637(Q,R)	SI.TRANSIST	MATSUSHITA	
	Q502	2SD637(Q,R)	SI.TRANSIST	MATSUSHITA	
1	Q503	2SC2240(GR,BL)	SI.TRANSIST	TOSHIBA	
	Q504	2SC2240(GR.BL)	SI.TRANSIST	TOSHIBA	
1	Q505	2SA970(GR)	SI.TRANSIST	TOSHIBA	
1	Q506	2\$A970(GR)	SI.TRANSIST	TOSHIBA	
1	Q507	2SC2235(0,Y)	SI.TRANSIST	TOSHIBA	
1	Q508	2SC2235(0,Y)	SI.TRANSIST	TOSHIBA	
	Q509	2\$A965(Y)	SI.TRANSIST	TOSHIBA	
	Q510	2SA965(Y)	SI.TRANSIST	TOSHIBA	
	Q515	2SK246(GR,BL)	F.E.T.	TOSHIBA	
ł		2SK246(GR,BL)	F.E.T.	TOSHIBA	
		2SC1740S(R,S)	SI.TRANSIST		
	Q542	2SC1740S(R,S)	SI.TRANSIST	ROHM	
1	Q543		SI.TRANSIST		
	Q544	2SA933S(RS)	SI.TRANSIST		
i	Q701	DTC114YS	DIGITAL TRA		
	Q702	2SC1740S(R,S)	SI.TRANSIST		
1	Q703	DTA124ES	DIGITAL TRA		
l		2SD2061(F,G)	SI.TRANSIST		
		2SB1064(E,F)	SI.TRANSIST		
		2SD1944(J,K)	SI.TRANSIST		
	Q901	2SC2389(S,E)	SI.TRANSIST		
	Q902	2SC2389(S,E)	SI.TRANSIST	ROHM	
	Q903	2\$A733A(P,K)	SI.TRANSIST		
l					

### ▲ : 'S:A:F:E:T:Y: P'A:R:T:S

### I. C. S.

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC101 IC151 IC152 IC201 IC501 IC502 IC701 IC702 IC702	VC 4580DD TC 163N VC 4580D LB 1639-CV VC 5022-2 VC 5022-2 WN 171202JYJ PST7046 UPC1237HA	I.C(MONO-AN I.C(DIGI-MO TOSHIBA I.C(MONO-AN I.C(DIGI-OT SANYO I.C(MONO-AN SANYO I.C(MONO-AN SANYO I.C(MONO-AN SANYO I.C(MORO-C MATSUSHITA I.C(MONO-AN NITSUMI I.C(MONO-AN NEC	

### △ SIA FIEITIY PIARITIS

### DIODES

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
ĺ	D207	SLR-342VC3F	L.E.D. ROHM	
1	D501	188119	SI.DIODE	
l	D502		SI.DIODE	
	D701	155119	SI.DIODE	
	D702	188119	SI.DIODE	
	D704	188119	SI.DIODE	
1	D721			
	D.7.2.2	SLR-34DC50F165		
1	D723			
		SLR-34DC50F165		
		SLR-34DC50F165		
	D726		L.E.D. ROHM	i
◮	D801	30DL2FC	SI.DIODE NIHONINTER	
Δ	D802		SI.DIODE NIHONINTER	
.♠			SI.DIODE NIHONINTER	
Δ	0804		SI.DIODE NIHONINTER	
Δ			SI.DIODE NIHONINTER	
Δ.	D816		SI.DIODE NIHONINTER	
Δ.	D817		SI.DIODE NIHONINTER	
Δ	D818		SI.DIODE NIHONINTER	
1 1	D821		ZENER DIODE NEC	
	D822		ZENER DIODE NEC	
	0823		ZENER DIODE ROHM	
	D824		ZENER DIODE ROHM	
	D831	155119	SI.DIODE A - ISIA BERITAY DIA D	

### DIODES

A I TEM PART NUMBER DESCRIPT	ION	AREA
D832 1SS119 SI.DIODE D851 MTZ5.1JC ZENER DIODE ROHM D901 1SS119 SI.DIODE D902 1SS119 SI.DIODE D903 1SS119 SI.DIODE D904 1SS119 SI.DIODE SI.DIODE		

A SAFETY PARTIS

### CAPACITORS

▲	ІТЕМ	PART	NUMBER	DES	C R I	PTION	AREA
<u> </u>	C101	QCS31F	IJ-101Z	100PF	50V	CER.CAPACI	BS
l	C101		J-101Z	100PF	50V	CER.CAPACI	£ F
	C101		J-101Z	100PF	50V	CER.CAPACI	EN
	C101		J-101Z	100PF	50V	CER.CAPACI	G
	C102		J-101Z	100PF	50V	CER.CAPACI	BS
	C102		J-101Z	100PF	50V	CER.CAPACI	EF
	C102		J-101Z	100PF	50V	CER.CAPACI	EN
	C102		J-101Z	100PF	50V	CER.CAPACI	G
	C103		M-106E	10MF	50V	E.CAPACITO	_
	C104	EETB1H	M-106E	10MF	50V	E.CAPACITO	
	C105	QCS31H	J-101Z	100PF	5.0 V	CER.CAPACI	
	C106		J-101Z	100PF	50V	CER.CAPACI	
	C111		K-101Y	100PF	50V	CER.CAPACI	
	C112		K-101Y	100PF	50V	CER.CAPACI	
	C121		M-227E	220MF	6.30	E.CAPACITO	
	C122		M-227E	220MF	6.3V	E.CAPACITO	
	C131	QFN81H		4700PF	50V	MYLAR CAPA	
	C132	QFN81H		4700PF	50V	MYLAR CAPA	
	C133	000310	J-331Z	330PF	50V	CER.CAPACI	
	C134 C135	OENS 4 D	J-331Z	330PF 0.015MF	50V 50V	CER.CAPACI Mylar capa	
	C136	QFN81H QFN81H		0.015MF	50V	MYLAR CAPA	
	C137	QFN81H		2700PF	50V	METAL MYLA	
	C138	QFN81H		2700PF	50V	METAL MYLA	
	C141		M-475E	4.7MF	50V	E.CAPACITO	
	C142		M-475E	4.7MF	50V	E.CAPACITO	
- 1	C143	QFN81H		1000PF	50V	METAL.MYLA	вѕ
- 1	C143	QFN81H		1000PF	50V	METAL.MYLA	EF
	C143	QFN81H		1000PF	50V	METAL.MYLA	EN
	C143	QFN81H	J-102	1000PF	50V	METAL.MYLA	G
- 1	C144	QFN81H		1000PF	50V	METAL.MYLA	BS
	C144	QFN81H		1000PF	50V	METAL.MYLA	EF
	C144	QFN81H		1000PF	50V	METAL.MYLA	EN
	C144	QFN81H		1000PF	50V	METAL.MYLA	G
	C145	EETB1E		22MF	257	E.CAPACITO	
- 1	C146		M-226E	22MF	25V	E.CAPACITO	
	C151	QCS31H		100PF 100PF	50V 50V	CER.CAPACI	BS
	C151	QCS31H	J-101Z	100PF	50V	CER.CAPACI CER.CAPACI	EF
- 1	C151	QCS31H		100PF	50V	CER.CAPACI	EN G
	C152	QCS31H		100PF	50V	CER.CAPACI	BS
ł	C152		J-101Z	100PF	50V	CER.CAPACI	EF
- 1	C152	QCS31H		100PF	50V	CER.CAPACI	EN
- 1	C152	QCS31H		100PF	50V	CER.CAPACI	G
l	C153	QCS31H		100PF	50V	CER.CAPACI	BS
1	C153	QCS31H	J-101Z	100PF	50V	CER.CAPACI	EF
ĺ	C153	QCS31H	J-101Z	100PF	50V	CER.CAPACI	EN
Ì	C153	QCS31H		100PF	50V	CER.CAPACI	G
l	C154	QCS31H		100PF	50V	CER_CAPACI	BS
	C154	QCS31H		100PF	50V	CER.CAPACI	E F
I	C154	QCS31H		100PF	50V	CER-CAPACI	EN
ŀ	C154	QCS31H		100PF	50V	CER.CAPACI	G
J	C155	QCS31H		100PF	50V	CER.CAPACI	BS
I	C155	QCS31H QCS31H		100PF 100PF	50V 50V	CER.CAPACI CER.CAPACI	EF FN
	C155	QCS31H		100PF	50V	CER.CAPACI	EN
	C156	QCS31H		100PF	50V	CER.CAPACI	G BS
	C156	QCS31H		100PF	50V	CER.CAPACI	EF
- 1	C156	QCS31H		100PF	50V	CER.CAPACI	EN
	C156	QCS31H		100PF	50V	CER.CAPACI	G
	C157	QCS31H		100PF	50V	CER.CAPACI	BS
	C157	QCS31H		100PF	50V	CER.CAPACI	ΕF
i	C157	QCS31H	J-101Z	100PF	50V	CER.CAPACI	EN
	C157	QCS31H		100PF	50V	CER.CAPACI	G
	C158	QCS31H		100PF	50V	CER.CAPACI	BS
	C158	QCS31H		100PF	50V	CER.CAPACI	EF
-	C158	QCS31H		100PF	50V	CER.CAPACI	EN
- [	C158	QCS31H		100PF	50V	CER.CAPACI	G
	C159	QCS31H		100PF	50V	CER.CAPACI	BS
	C159	QCS31H		100PF	50V	CER.CAPACI	EF EN
- 1	C159	QCS31H		100PF 100PF	50V	CER.CAPACI	EN
i	C160	QCS31H		100PF	50V 50V	CER.CAPACI	G BS
	C160	QCS31H		100PF	50V	CER.CAPACI	EF
	C160	QCS31H		100PF	50V	CER.CAPACI	EN
				-		AFETY PAR	
					اد ند	artarrate track	1.9.

### CAPACITORS

1	I T E M	PART	NUMBER	DES	C R I	PTION	AREA
	C160 C161		HJ-101Z	100PF	50V	CER.CAPACI	G
	C161		HJ-101Z HJ-101Z	100PF 100PF	50V 50V	CER.CAPACI CER.CAPACI	BS EF
-	C161	QCS31	HJ-101Z	100PF	50V	CER.CAPACI	EN
	C161	QCS31	HJ-101Z	100PF	50V	CER.CAPACI	G
	C162		HJ-101Z HJ-101Z	100PF	50V 50V	CER.CAPACI	BS EF
-	C162		HJ-101Z	100PF	50V	CER.CAPACI	EN
	C162		HJ-101Z	100PF	50V	CER.CAPACI	G
	C163		HJ-101Z	100PF	50V	CER.CAPACI	BS
	C163		HJ-101Z HJ-101Z	100PF 100PF	50V 50V	CER.CAPACI CER.CAPACI	E F E N
-	C163		HJ-101Z	100PF	50V	CER.CAPACI	G
1	C164		HJ-101Z	100PF	50V	CER.CAPACI	BS
4	C164		HJ-101Z HJ-101Z	100PF 100PF	50V 50V	CER.CAPACI CER.CAPACI	E F E N
	C164		HJ-101Z	100PF	50V	CER.CAPACI	G
١							
	C171 C201		HJ-103ZN EM-226E	0.01MF 22MF	50V 25V	METAL.MYLA E.CAPACITO	
1	C202		EM-226E	22MF	25V	E.CAPACITO	
-	C205	QCHB1	EZ-223	0.022MF	25V	CER.CAPACI	
ļ	C206		AM-107E	100MF	10V	E.CAPACITO	
	C207 C211		EZ-223 HJ-823ZM	0.022MF 0.082MF	25V 50V	CER.CAPACI AL E.CAPAC	
	C212		HJ-823ZM HJ-122Z	0.082MF	50V 50V	AL E.CAPAC MYLAR CAPA	
	C214		HJ-122Z	1200PF	50V	MYLAR CAPA	
	C221 C222		HJ-153ZM HJ-153ZM	0.015MF 0.015MF	50 <b>V</b> 50 <b>V</b>	METAL.MYLA METAL.MYLA	
1	C223		HJ-823ZM HJ-823ZM	0.082MF		AL E.CAPAC AL E.CAPAC	 
	C225	EETB1	HM-475E	4.7MF	50V	E_CAPACITO	
	C226		HM-475E	4.7MF	50V	E.CAPACITO	
-	C231		HJ-332 HJ-332	3300PF 3300PF	50V 50V	METAL.MYLA	
İ	C233		HJ-183ZM	0.018MF		METAL.MYLA	
	C234	QFLC1	HJ-183ZM	0.018MF	50V	METAL.MYLA	
	C235		HJ-221Z H1-2217	220PF 220PF	50V 50V	CER.CAPACI CER.CAPACI	
-	C237		HJ-221Z HJ-122Z	1200PF	50V	MYLAR CAPA	
-	C238	QFN31	HJ-122Z	1200PF	50V	MYLAR CAPA	
-	C301		HM-106E	10MF	50V	E.CAPACITO	
-	C302		HM-106E HJ-221Z	10MF 220PF	50V 50V	CER.CAPACITO	
1	C304	QCS31	HJ-221Z	220PF	50V	CER.CAPACI	
-	C305	QCS31	HJ-101Z	100PF	50V	CER.CAPACI	
-	C306 C307		HJ-101Z HM-106E	100PF 10MF	50V 50V	CER.CAPACI E.CAPACITO	
1	C308		HM-106E	10MF	50V	E.CAPACITO	
1	C309	EETB1	EM-476E	47MF	25V	E.CAPACITO	
١	C310		EM-476E	47MF 220PF	25V 50V	E.CAPACITO CER.CAPACI	
١	C318		HK-221Y EM-476E	47MF	25V	E.CAPACITO	
l	C320	EETB1	EM-476E	47MF	25V	E.CAPACITO	
	C321		HM-105E	1MF	50V	E.CAPACITO	
	C403		HJ-101 HJ-101	100PF 100PF	50V 50V	POLYPROPY.	
	C419	QFLC1	HJ-103ZM	0.01MF	50V	METAL.MYLA	
-	C420			0.01MF	50V	METAL.MYLA	
1	C451	QCS31	HJ-100Z	10PF	50V	CER.CAPACI	
1	C452	QCS31	HJ-100Z	10PF	50V	CER.CAPACI	
1	C453 C454		EM-107E EM-107E	100MF 100MF	25V 25V	E.CAPACITO E.CAPACITO	
ĺ	C455		LM-107E HM-475E	4.7MF	50V	E.CAPACITO	
1	C456	EETB1	HM-475E	4.7MF	50V	E.CAPACITO	
	C503		1J-470	47PF		FILM MICA	
	C504		1J-470 1J-470	47PF 47PF		FILM MICA FILM MICA	
1	C506	EFF00	1J-470	47PF		FILM MICA	
1	C537	QFVC1H	HJ-104 <b>ZN</b>	0.1MF	50V	METAL MYLA	
-	C538			0.1MF 0.1MF	50V 50V	METAL.MYLA METAL.MYLA	
1	C540			0.1MF	5.0 V	METAL.MYLA	
1	C601			0.01MF	50V	METAL.MYLA	85
-	C601 C601		HJ-103ZM HJ-103ZM	0.01MF	50V 50V	METAL MYLA	E F E N
-	C601			0.01MF	50V	METAL . MYLA	Ğ
-	C602	QFLC1	HJ-103ZM	0.01MF	50V	METAL.MYLA	BS
-	C602			0.01MF 0.01MF	50V 50V	METAL.MYLA	E F E N
-	C602			0.01MF	50V	METAL MYLA	G
	C603	QFLC1	HJ-103ZM	0.01MF	50V	METAL.MYLA	BS
	C603			0.01MF	50V	METAL MYLA	E.F.
-	C603			0.01MF 0.01MF	50V 50V	METAL.MYLA METAL.MYLA	E N G
	C604	QFLC1	HJ-1032M	0.01MF	50V	METAL MYLA	BS
	C604		HJ-103ZM	0.01MF	50V	METAL MYLA	EF
	C604	QFLC1H QFLC1H		0.01MF	50V 50V	METAL.MYLA METAL.MYLA	E N G

CAPACITORS

Δ	ITEM	PART	NUMBER	D.E.S	C R I	PTION	AREA
	C611	QCBB1H	K-221Y	220PF	50V	CER.CAPACI	BS
	C611	QCBB1H	K-221Y	220PF	50V	CER.CAPACI	EF
	C611	QCBB1H	K-221Y	220PF	50V	CER.CAPACI	E.N
	C611	QCBB1H	K-221Y	220PF	50V	CER.CAPACI	G
	C612	QCBB1H	K-221Y	220PF	50V	CER.CAPACI	BS
	C612	QCBB1H	K-221Y	220PF	50V	CER.CAPACI	EF
	C612	QCBB1H	K-221Y	220PF	50V	CER.CAPACI	EN
	C612	QCBB1H	K-221Y	220PF	50V	CER.CAPACI	G
	C701	EETB1H	M-225E	2.2MF	50V	E.CAPACITO	
	C702	QCVB10	M-103Y	0.01MF	16V	CER.CAPACI	1
	C703	QCVB1C	M-103Y	0.01MF	16V	CER.CAPACI	1
	C704	QCGB1H	K-102	1000PF	50V	CER.CAPACI	
	C707	EETBOJ	M-477E	470MF	6.3V	E.CAPACITO	
	C708	QCZO20	5-155	1.5MF	25V	C.CAPACITO	1:
	C709	EETBOJ	M-108E	1000MF	6.30	E.CAPACITO	1
	C711	QCHB1E	Z-223	0.022MF	257	CER.CAPACI	
	C712	QCHB1E	Z-223	0.022MF	25V	CER.CAPACI	ŀ
	C731	QCBB1H	K-221Y	220PF	50V	CER.CAPACI	t
	C802	QFN82A	J-104	0.1MF	100V	MYLAR CAPA	-
	C803	QFN82A	J-104	0.1MF	100V	MYLAR CAPA	
	C805	QFN82A	J-104	0.1MF	100V	MYLAR CAPA	
	C811	EEWS01	0-828E	8200MF		E.CAPACITO	Ť.
	C812	EEW501	0-828E	8200MF		E.CAPACITO	
	C814	QCHB1E	Z-223	0.022MF	25V	CER.CAPACI	BS
	C814	QCHB1E	Z-223	0.022MF	25V	CER.CAPACI	EF
	C814	QCHB1E	Z-223	0.022MF	25V	CER.CAPACI	EN
	C814	QCHB1E	Z-223	0.022MF	25V	CER.CAPACI	G
	C815	QETB1H	M-477	470MF	50V	AL E.CAPAC	1
	C816	QETB1H	M-477	470MF	5 O.V	AL E.CAPAC	ľ
	C821	EETB1H	M-475E	4.7MF	50V	E.CAPACITO	1
	C822	EETB1H	M-475E	4.7MF	50V	E.CAPACITO	1
	C823	EETB18	M-226E	22MF	25V	E.CAPACITO	Į.
	C824		M-226E	22MF	25V	E.CAPACITO	İ
	C851	EETB18	M-106E	10MF	25V	E.CAPACITO	1
	C901		M-107E	100MF	10V	E.CAPACITO	
	C902	EETB10	M-226E	22MF	16V	E.CAPACITO	
	C903	EETB1F	M-475E	4.7MF	50V	E.CAPACITO	1
	C904	EETB10	M-226E	22MF	16V	E.CAPACITO	ĺ

A : SAFETY PARTS

RESISTORS

				I				
Δ	ITEM	PART N	UMBER	DES	C.R.I	PT!	O N	AREA
	R215	QRD161J-	-183	18K	1/6W	CARBON	RES	
	R216	QRD161J-	-183	18K	1/6W	CARBON	RES	
	R217	QRD161J-	-474	470K	1/6W	CARBON	RES	
	R218	QRD161J-	-474	470K	1/6W	CARBON	RES.	
	R221	QVDB98C-	-E15E	100K		VARIAB	LE R	
	R223	QRD161J-	-203	20K	1/6W	CARBON	RES	
	R224	QRD161J-	-203	20K	1/6W	CARBON	RES	
	R225	QRD161J-	-362	3.6K	1/6W	CARBON	RES	
	R226	QRD161J-	-362	3.6K	1/6W	CARBON	RES	
	R231	QVDB98C-	-E15E	100K		VARIAB	LE R	
	R233	QRD161J-	-472	4.7K	1/6W	CARBON	RES	
	R234	QRD161J-	472	4.7K	1/6W	CARBON	RES	
	R235	QRD161J-	821	820	1/6W	CARBON	RES	
	R236	QRD161J-	821	820	1/6W	CARBON	RES	
	R303	QRD161J-	474	470K	1/6W	CARBON	RES	
	R304	QRD161J-	474	470K	1/6W	CARBON	RES	
	R307	QRD161J-	104	100K	1/6W	CARBON	RES	
	R308	QRD161J-	104	100K	1/6W	CARBON	RES	
Δ	R309	QRZ0077-	101	100	1/4W	FUSIBL	E RE	
Δ	R310	QRZ0077-	101	100	1/4W	FUSIBL	E RE	
	R311	QRD161J-	102	1 K	1/6W	CARBON	RES	
	R312	QRD161J-	102	1 K	1/6W	CARBON	RES	
	R318	QRD161J-	102	1K	1/6W	CARBON	RES	
	R321	QRD161J-	102	1 K	1/6W	CARBON	RES	
	R321	QRD161J-	103	10K	1/6W	CARBON	RES	
	R322	QRD161J-	102	1 K	1/6W	CARBON	RES	
	R322	QRD161J-		10K	1/6W	CARBON		
	R325	QRD161J-	-105	1 M	1/6W	CARBON	RES	
	R326	QRD161J-		100K	1/6W	CARBON		İ
	R327	QRD161J-		1 K	1/6W	CARBON		
	R403	QRD161J-		100K	1/6W	CARBON		
	R404	QRD161J-		100K	1/6W	CARBON		
	R451	QRD161J-		16K	1/6W	CARBON		
	R452	QRD161J-		16K	1/6W	CARBON		
	R453	QRD161J-		82K	1/6W	CARBON		
	R454	QRD161J-		82K	1/6W	CARBON		
	R455	QRD161J-		560	1/6W	CARBON		
	R456	QRD161J-		560	1/6W	CARBON		
	R457	QRD161J-		560	1/6W	CARBON		
	R458	QRD161J-		560	1/6W	CARBON		
	R459	QRD161J-		220K	1/6W	CARBON		
	R460	QRD161J-		220K	1/6W	CARBON		
	R501	QVPE601-		500		TRIMME		
	R502	QVPE601-		500		TRIMME	-	
-	R503	QRD161J-	621	620	1/6W	CARBON		

A : SIA FIEITIY: PIAIRITIS

### RESISTORS

### A ITEM PART NUMBER DESCRIPTION AREA R504 QRD161J-621 620 1/6W CARBON RES R509 QRD161J-391 QRD161J-391 CARBON RES R510 390 1/6W CARDON RES QRD161J-391 ERT-D2WHL202S ERT-D2WHL202S QRD14CJ-122SX QRD14CJ-122SX R511 NEGATIVE T NEGATIVE T UNF.CARBON UNF.CARBON UNF.CARBON R512 2 K 1/4W 1.2K 1.2K R513 R514 1/4W QRD14CJ-4R7S QRD14CJ-4R7S 4.7 R517 1/4W R518 1/4W UNF.CARBON R519 QRD14CJ-4R7S 4.7 1/4W UNF.CARBON 4.7 2.2K 2.2K 47K 47K R101 R102 QRD161J-222 QRD161J-222 1/6W 1/6W CARBON RES R105 QRD161J-473 1/6W CARBON RES R106 QRD161J-473 CARBON 1/6W RES 240 R121 QRD161J-241 1/6W CARBON RES 240 15K 1/6W QRD161J-241 CARBON RES R131 QRD161J-153 1/6W CARBON RES QRD161J-153 CARBON R133 QRD161J-184 180K 1/6W CARBON RES QRD161J-184 QRD161J-103 RES R134 R135 180K CARBON 1/6W CARBON 10K R136 QRD161J-103 QRD161J-104 CARBON CARBON RES 10K 1/6W 100K 1/6W R141 R142 QRD161J-104 100K 1/6W CARBON RES QRD161J-101 RES R143 100 1/6W CARBON R144 QRD161J-101 100 1/6W CARBON RES CARBON RES R145 QRD161J-102 1K 1K 56K 56K 56K 1M 1M 56K 1M 56K 1M 56K 33 1/6W QRD161J-102 QRD161J-563 1/6W 1/6W R146 CARBON DES CARBON RES R151 QRD161J-563 QRD161J-563 1/6W 1/6W RES RES CARBON CARBON R154 QRD161J-563 QRD161J-563 1/6W CARBON RES 1/6W CARBON RES QRD161J-563 QRD161J-105 QRD161J-105 R156 1/6W CARBON RES 1/6W CARBON RES RES R158 1/6W CARBON QRD161J-563 1/6W CARBON RES R160 QRD161J-563 1/6W CARBON RES QRD161J-105 1/6W CARBON R162 QRD161J-105 1/6W CARBON RES QRD161J-563 1/6W QRD161J-563 CARBON R164 1/6W RES R165 QRD161J-331 CARBON 330 330 330 QRD161J-331 R166 1/6W CARBON RES QRD161J-331 QRD161J-331 1/6W CARBON CARBON RES R168 R171 R172 QRD161J-331 QRD161J-331 330 330 CARBON RES CARBON RES 1/6W 1/6W 330 330 330 330 QRD161J-331 QRD161J-331 CARBON CARBON R173 1/6W RES R174 1/6W RES QRD161J-331 QRD161J-331 R175 1/6W CARBON RES CARBON RES R176 1/6W R170 QRD161J-331 QRD161J-331 330 1/6W 1/6W CARBON RES 330 330 CARBON R180 RES QRD161J-331 QRD161J-331 RES RES R183 1/6W CARBON CARBON R184 1/6W 250K 50K 220 220 330 VARIABLE R R193 QVDB98M-FF5C R201 QVDB94B-E54D R203 QRD161J-221 1/6W CARBON RES QRD161J-221 QRD161J-331 1/6W R204 CARBON RES R207 CARBON RES 20K 20K 5.1K 5.1K 4.7 0.22 QRD161J-203 1/6W CARBON RES R211 QRD161J-203 1/6W R212 CARBON RES QRD161J-512 QRD161J-512 1/6W CARBON RES R214 1/6W CARBON RES R520 QRD14CJ-4R7S ERF032K-R22 1/4W UNF.CARBON R535 3₩ CEM.RESIST ERF032K-R22 3W CEM.RESIST R536 QRD125J-100 QRD125J-100 QRG022J-100AM QRG022J-100AM QRD14CJ-621SX R537 R538 10 1/2 UNF.CARBON UNF.CARBON 10 1/2W R539 R540 R541 OXIDE META 2 W $\Lambda$ 620 1/4W UNF.CARBON QRD14CJ-621SX QRD14CJ-621SX QRD14CJ-621SX QRD14CJ-181S R542 R543 R544 1/4W UNF.CARBON UNF.CARBON UNF.CARBON UNF.CARBON 620 620 180 1/4W 1/4W ٨ R545 R545 R546 QRD14CJ-271S QRD14CJ-181S 1/4W 1/4W UNF.CARBON 270 180 Δ R546 R547 QRD14CJ-271S QRD14CJ-271S 270 270 1/4W 1/4W UNF.CARBON Δ QRD14CJ-181S QRD14CJ-181S QRD14CJ-271S QRD14CJ-271S QRZ0077-100 QRZ0077-100 R547 R548 R548 180 1/4W UNF.CARBON 180 270 10 10 10 10 1/4W ◭ 1/4W UNF.CARBON R601 FUSIBLE RE Δ R601 R601 1/44 FUSTBLE RE FF QRZ0077-100 QRZ0077-100 QRZ0077-100 1/4W 1/4W ΕN Δ R601 FUSIBLE RE R602 QRZ0077-100 1/4W FUSIBLE RE BS 10 10 QRZ0077-100 R602 1/4W FUSIBLE RE EF QRZ0077-100 QRZ0077-100 R602 1/4W 1/4W G ٨ R602 FUSIBLE RE QRZ0077-100 QRZ0077-100 10 R603 FUSIBLE RE ВS Δ R603 1/4W FUSIBLE RE ΕF QRZ0077-100 FUSIBLE RE : SAFETY PARTS

### RESISTORS

R603 R604 R604 R604 R604 R611 R612 R701 R702 R703 R704 R705 R706	PART NUMBER  QRZ0077-100  QRZ0077-100  QRZ0077-100  QRZ0077-100  QRG022J-331AM  QRG022J-331AM  QRD161J-104  QRD161J-103  QRD161J-103  QRD161J-102	10 10 10 10 10 330 330 100K	1/4W 1/4W 1/4W 1/4W 1/4W 2W 2W	PTION FUSIBLE RE FUSIBLE RE FUSIBLE RE FUSIBLE RE FUSIBLE RE OXIDE META OXIDE META	ARE G BS EF EN
R604 R604 R604 R604 R611 R612 R701 R702 R703 R704 R705	QRZ0077-100 QRZ0077-100 QRZ0077-100 QRZ0077-100 QRG022J-331AM QRG022J-331AM QRD161J-104 QRD161J-103 QRD161J-102	10 10 10 10 330 330 100K	1/4W 1/4W 1/4W 1/4W 2W 2W	FUSIBLE RE FUSIBLE RE FUSIBLE RE FUSIBLE RE OXIDE META	BS EF EN
R604 R604 R604 R611 R612 R701 R702 R703 R704 R705	QRZ0077-100 QRZ0077-100 QRZ0077-100 QRZ0077-100 QRG022J-331AM QRG022J-331AM QRD161J-104 QRD161J-103 QRD161J-102	10 10 10 10 330 330 100K	1/4W 1/4W 1/4W 1/4W 2W 2W	FUSIBLE RE FUSIBLE RE FUSIBLE RE FUSIBLE RE OXIDE META	BS EF EN
R604 R604 R611 R612 R701 R702 R703 R704 R705	QRZ0077-100 QRZ0077-100 QRZ0077-100 QRG022J-331AM QRG022J-331AM QRD161J-104 QRD161J-103 QRD161J-103	10 10 10 330 330 100K	1/4W 1/4W 1/4W 2W 2W	FUSIBLE RE FUSIBLE RE FUSIBLE RE OXIDE META	E F E N
R604 R611 R612 R701 R702 R703 R704 R705	QRZ0077-100 QRZ0077-100 QRG022J-331AM QRG022J-331AM QRD161J-104 QRD161J-103 QRD161J-102	10 10 330 330 100K	1/4W 1/4W 2W 2W	FUSIBLE RE FUSIBLE RE OXIDE META	EN
R611 R612 R701 R702 R703 R704 R705	QRZ0077-100 QRG022J-331AM QRG022J-331AM QRD161J-104 QRD161J-103 QRD161J-102	10 330 330 100K	1/4W 2W 2W	FUSIBLE RE OXIDE META	
R611 R612 R701 R702 R703 R704 R705	QRGO22J-331AM QRGO22J-331AM QRD161J-104 QRD161J-103 QRD161J-102	330 330 100K	2 W 2 W	OXIDE META	· · · · · · ·
R701 R702 R703 R704 R705	QRG022J-331AM QRD161J-104 QRD161J-103 QRD161J-102	330 100K	2 W		1
R702 R703 R704 R705	QRD161J-104 QRD161J-103 QRD161J-102	100K			ı
R702 R703 R704 R705	QRD161J-103 QRD161J-102		1/6W	CARBON RES	
R704 R705	QRD161J-102		1/6W	CARBON RES	
R705		1 K	1/6W	CARBON RES	ĺ
		22K	1/6W	CARBON RES	*********
R706	QRD161J-473	47K	1/6W	CARBON RES	
	QRD161J-473	47K	1/6W	CARBON RES	
R707	QRD161J-331	330	1/6W	CARBON RES	}
R708	QRD161J-331	330	1/6W	CARBON RES	
R709	QRD161J-221	220		CARBON RES	
R710	QRD161J-103	10K	1/6W	CARBON RES	
R711	QRD161J-103	10K	1/6W	CARBON RES	
R712	QRD161J-103	10K	1/6W	CARBON RES	
R713	QRD161J-223	22K	1/6₩	CARBON RES	
R714	QRD161J-223	22K	1/6W	CARBON RES	
R721	QRD161J-221	220	1/6W	CARBON RES	
R722	QRD161J-221	220	1/6W	CARBON RES	
R723	QRD161J-221	220	1/6W	CARBON RES	
R724	QRD161J-221	220	1/6W	CARBON RES	
R725	QRD161J-221	220	1/6W	CARBON RES	
R726	QRD161J-331	330	1/6W	CARBON RES	
R731	QRD161J-221	220	1/6W	CARBON RES	
R732	QRD161J-471	470	1/6W	CARBON RES	
R815	QRD14CJ-100SX	10	1/4W	UNF.CARBON	
R816	QRD14CJ-100SX	10	1/4W	UNF.CARBON	
		10	1/4W	FUSIBLE RE	
		10	1/4W	FUSIBLE RE	
		10K	1/4W	CONST.META	
				CONST.META	
				CARBON RES	
				1	
- 1					
. 7	4UDIE30-4/I	۳,۵	1/5M	OMP. CAKBON	
	R709 R710 R711 R712 R713 R714 R721 R722 R723 R724 R725 R726 R731 R732 R732 R732 R732	R709	R709         QRD161J-221         220           R710         QRD161J-103         10K           R711         QRD161J-103         10K           R712         QRD161J-103         10K           R713         QRD161J-223         22K           R714         QRD161J-223         22K           R721         QRD161J-221         220           R722         QRD161J-221         220           R723         QRD161J-221         220           R724         QRD161J-221         220           R725         QRD161J-221         220           R726         QRD161J-221         220           R727         QRD161J-221         220           R726         QRD161J-221         220           R727         QRD161J-221         220           R726         QRD161J-221         220           R731         QRD161J-221         220           R732         QRD161J-221         220           R732         QRD161J-200         10           R819         QRD161J-200         10           R821         QRD14CJ-100SX         10           R822         QRD2077-100         10           R822         Q	R709 QRD161J-221 220 1/6W R710 QRD161J-103 10K 1/6W R711 QRD161J-103 10K 1/6W R712 QRD161J-103 10K 1/6W R712 QRD161J-223 22K 1/6W R721 QRD161J-221 220 1/6W R722 QRD161J-221 220 1/6W R722 QRD161J-221 220 1/6W R724 QRD161J-221 220 1/6W R725 QRD161J-221 220 1/6W R726 QRD161J-221 220 1/6W R726 QRD161J-221 220 1/6W R726 QRD161J-221 220 1/6W R726 QRD161J-221 220 1/6W R726 QRD161J-221 220 1/6W R726 QRD161J-221 220 1/6W R726 QRD161J-221 220 1/6W R728 QRD161J-221 220 1/6W R821 QRD161J-221 220 1/6W R821 QRD161J-221 220 1/6W R821 QRD161J-221 220 1/6W R821 QRD161J-221 220 1/6W R826 QRD161J-221 220 1/6W R826 QRD161J-221 220 1/6W R827 QRD161J-221 220 1/6W R827 QRD161J-221 220 1/6W R829 QRD161J-153 15K 1/6W R829 QRD161J-153 15K 1/6W R890 QRD161J-153 15K 1/6W R890 QRD161J-153 15K 1/6W R890 QRD161J-153 15K 1/6W R890 QRD161J-153 15K 1/6W R890 QRD161J-153 15K 1/6W R890 QRD161J-153 15K 1/6W R890 QRD161J-153 15K 1/6W R890 QRD161J-153 15K 1/6W R890 QRD161J-153 15K 1/6W R890 QRD161J-103 10K 1/6W R891 QRD161J-103 10K 1/6W R891 QRD161J-103 10K 1/6W R891 QRD161J-103 10K 1/6W R891 QRD161J-103 10K 1/6W R891 QRD161J-103 10K 1/6W R891 QRD161J-153 15K 1/6W R891 QRD161J-153 15K 1/6W R891 QRD161J-103 10K 1/6W R891 QRD161J-103 10K 1/6W R891 QRD161J-103 10K 1/6W R891 QRD161J-153 15K 1/6W R891 QRD161J-153 15K 1/6W R891 QRD161J-103 10K 1/6W R891 QRD161J-103 10K 1/6W R891 QRD161J-153 15K 1/6W R891 QRD161J-153 15K 1/6W R891 QRD161J-103 10K 1/6W R891 QRD161J-103 10K 1/6W R891 QRD161J-153 15K 1/6W R891 QRD161J-153 1	R709

### OTHERS

Δ	I.T.E.M	PART NUMBER	DESCRIPTION	AREA
		QXTF500-015	SHRINK TUBE	
1		E70945-H35	HEAT SINK	
		GBSG3008CC	TAPPING SCR	
1		QWE692-16RR	VINYL WIRE	
		QWE694-16RR	VINYL WIRE	************
1 1		QWE350-12RR	VINYL WIRE	
		QWE690-19RR	VINYL WIRE	
		QWE690-16RR	VINYL WIRE	
		QWE691-16RR	VINYL WIRE	
		QWE352-16RR	VINYL WIRE	
1		QWE356-16RR	VINYL WIRE	
1 !		EWT011-157	TERMINAL WI	
1 1	J101	EMNOOTV-208A	PIN JACK 2 PIN	
	J102	EMNOOTV-603A	JACK BOARD 6 PIN IACK	
	J103	EMNOOTV-404A	JACK BOARD 4 PIN JACK	
	J104	EMNOOTV-404A	JACK BOARD 4 PIN JACK	
i	J191	VMC0194-S08	CONNECT TER 8 PIN	
1 1	J192	VMC0194-S05	FEMALE CONN 5 PIN	
1 1	J601	EMBOOTV-801A	TERMINAL SPK.	BS
	J601	EMBOOTV-801B	TERMINAL SPK.	EF
	J601	EMBOOTV-801B	TERMINAL SPK.	EN
	J601	EMBOOTV-801A	TERMINAL SPK.	G
	J601	EMBOOTV-801B	TERMINAL SPK.	U
	J601	EMBOOTV-801B	TERMINAL SPK.	UΤ
	J611	QMS6302-131	HEADPHONE J	

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### AX-R5BK

### OTHERS

Δ	ITEM	PART	NUMBEI	DESCRIPTIO	N	AREA
	J701	EMV712	3-021	CONNECT TER 21 PIN		
ı	J721	EMV712	3-021	CONNECTOR 21 PIN	1	
		QMS350	1-020	PIN JACK		
1	J751	EMV712	2-103	CONNECT TER 3 PIN		
	J752	EMV712	2-004	CONNECT TER 4 PIN		
	L501	EQL000	1-1RO	INDUCTOR	1	
1	L502	E01000	1-1RO	INDUCTOR		
1	P191	VMC019	4-P08	CONNECT TER 8 PIN		
		VMC019		MALE CONNEC 5 PIN		veness 50.37 t
1		EMV510		CONNECT TER 6 PIN		
1	P202	EMV510		CONNECT TER 6 PIN		
1	P207	EMV510		MALE CONNEC 2 PIN		
1	P208	EMV510		MALE CONNEC 2 PIN		
	P601	EMV513		CONNECT TER 6 PIN		
l l		EMV510		MALE CONNEC 3 PIN		
		QSP200		PUSH SWITCH TEPA 2 MONITO		
		QSP200		PUSH SWITCH SOURSE DIRECT	'	
		QSP200		PUSH SWITCH LOUDNESS	I	
		QST426		PUSH SWITCH SPK.		
ł		QSR211		ROTARY SWIT SOURSE SELECT	UK	
		EWS296		SOCKET WIRE 6 PIN SOCKET WIRE 6 PIN	- 1	
		EWS290		SOCKET WIRE 6 PIN	1	
		EWS293		SOCKET WIRE 3 PIN	í	
	FP401	EM2400		EARTH PLATE		
1	EF#01	En2400	2-0012	EARTH FEATE		
1	RY901	ESK7D2	4-2120	RELAY		
	XT701		0-000EM	CERAMIC RES	i	

### ■ ENG-012 A Pre. Driver PC Board Ass'y

### RESISTORS

	R405 R406 R407 R408 R409	QRD161J-202 QRD161J-202 QRD161J-202	2 K	1/6W	CARBON RES	
	R407 R408	QRD161J-202		4 / 4 1.1		
	R408			T\OM.	CARBON RES	
			2 K	1/6W	CARBON RES	
	R409	QRD161J-202	2 K	1/6W	CARBON RES	i
		QRD161J-912	9.1K	1/6W	CARBON RES	i
ı	R410	QRD161J-912	9.1K	1/6W	CARBON RES	***********
	R411	QRD161J-101	100	1/6W	CARBON RES	1
ł	R412	QRD161J-101	100	1/6W	CARBON RES	j
Δ	R413	QRD14CJ-121S	X 120	1/4W	UNF.CARBON	ł
Δ	R414	QRD14CJ-121S	X 120	1/4W	UNF.CARBON	
1	R415	QRD161J-302	3K	1/6W	CARBON RES	
	R416	QRD161J-302	3K	1/6W	CARBON RES	
- 1	R417	QRD161J-302	зк	1/6W	CARBON RES	
- [	R418	QRD161J-302	3K	1/6W	CARBON RES	
	R419	QRD161J-391	390	1/6W	CARBON RES	
	R420	QRD161J-391	390	1/6W	CARBON RES	
	R421	QRD161J-152	1.5K	1/6W	CARBON RES	
- 1	R422	QRD161J-152	1.5K	1/6W	CARBON RES	
- 1	R423	QRD161J-333	33K	1/6W	CARBON RES	
	R424	QRD161J-333	33K	1/6W	CARBON RES	
	R425	QRD161J-333	33K	1/6W	CARBON RES	
ı	R426	QRD161J-333	33K	1/6W	CARBON RES	
1	R427	QRD161J-152	1.5K	1/6W	CARBON RES	
- 1	R428	QRD161J-152	1.5K	1/6W	CARBON RES	
	R429	QRD161J-391	390	1/6W	CARBON RES	
	R430	QRD161J-391	390	1/6W	CARBON RES	

A : SAFETY PARTS

### $T\ R\ A\ N\ S\ 1\ S\ T\ O\ R\ S$

<b>A</b> 1	тем	PAR	т	ΝI	J.M	В	ΕR	D	Ε	s	С	R	I	P	т	ı	0	N	A	RI	EΑ
	Q401 Q402 Q403 Q404 Q405 Q406 Q407 Q408 Q409 Q411 Q412	2SC; 2SC; 2SC; 2SA; 2SA; 2SA; 2SA; 2SA; 2SA; 2SA; 2SA	224 224 970 970 970 970 933 933	0 ( 0 ( 0 ( 0 ( 0 ( 0 ( 0 ( 0 ( 0 ( 0 (	GR GR GR R) R) (R) (R	BI	L) L) L)	SI. SI. SI. SI.	TR TR TR TR TR TR TR TR	AN AN AN AN AN AN AN	SI SI SI SI SI SI SI SI	ST ST ST ST ST ST ST ST	TO TO TO TO RO RO TO	SH SH SH SH SH SH	IB IB IB IB IB	A A A A A A					

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### DIODES

Δ	I T E M	PART	NUMBER	D	Е	s	С	R	I	P	т	1	0	N	AREA
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								Δ	: :S	ΑĪ	·E	T·Y	r. ij	PiA:	R:T:S

CAPACITORS

Δ	ITEM	PART	N	UМ	BER	D	E	S	С	R	I	P	т	1	0	N	A	RE	ΕA
	C405	QCS3	1HJ-	101	Z	100	PF		5	٥v	-	CE	RA	MI	c				
	C406	QC\$3	1HJ-	101	Z	1.00	PF		5	٥v		CE	RA	MI	С		1		
	C411	QFLC	1 H J -	332	ZM	330	OP	F	5	٥v		ME	ETA	L.	MY	LA	1		
	C412	QFLC	1HJ-	332	ZM	330	OP	F	5	٥v		ME	TA	L.	MY	LA	1		
	C413	QCS2	HJ-	220	A	22P	F		5	٥v		CE	RA	ΜI	С		1		
	C414	QCS2	1HJ-	220	A	22P	F		5	٥٧		CE	RA	MI	C		1		
	C415	QCS3	IHJ-	330	) Z	33P	F		5	٥٧		CE	RA	MI	С				
	C416	QCS3	1HJ-	330	) Z	33P	F		5 (	٥٧		CE	RA	ΜI	С				
	C417	QCS3	IHJ-	330	Z	33P	F		5 (	٥٧		CE	RA	ΜI	С				
	C418	QCS3	LHJ-	330	Z	33P	F		5	٥v		CE	RA	ΜI	Ç				
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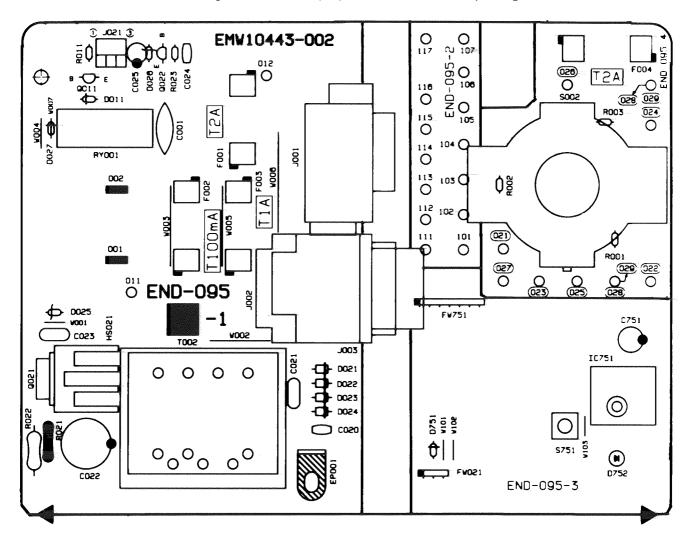
OTHERS

Δ	ITEM	PART NUMBER	DESCRIPT ON	AREA
	P401	EMV5112-015R	CONNECTOR 15 PIN	
			A DOMEDINE DA	nym o

A SAFETY PARTS

### **■ END-095** Power Primary PC Board Ass'y

Note: END-095 varies according to the areas employed. See note (1) when placing an order.



Note (1)

· · · · · · · · · · · · · · · · · · ·		
PC Board Ass'y	Version	Designated Areas
END-095 A	G	Germany
END-095 B	EF	Continental Europe
END-095 C	EN	Scandinavia
END-095 D	BS	the U.K.
END-095 E	U UT	Universal Type Taiwan

TRANSISTORS

Δ	ІТЕМ	PART	NUMBE	R	D	E	s	С	R	1	Р	т	I	0	N	AREA
	Q011 Q021 Q021 Q022	2SD194	50(Q,R) 54(J,K) 54(J,K) 55(0,Y)		SI. SI. SI.	TR TR	A N A N	S I S I	ST ST	RO	1HC	4	A			U UT
									<u> </u>	. 10	A·E	- E	TIV	1 1	PIA:E	Tr.S

I. C. S.

Δ	I T E M	PART NUMBER	DESCRI	PTION	AREA
-	I C 751	GP1U571X	INFRARED DE SI	HARP	
				NA PIPIPIPIPI	

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DIODES

Δ	ITEM	PART NUMBER	D.E.S.C.R	I P T I O N	AREA
Δ Δ Δ	D011 D011 D011 D011 D011 D011 D021	MTZ12JC MTZ12JC MTZ12JC MTZ12JC 1SS119 1SS119 1SS119 1SS119 ERA15-02L19 ERA15-02L19 ERA15-02L19 MTZ12JC MTZ12JC RD6-2JSB3 1SS119	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE	ROHM ROHM ROHM KYOUDOU KYOUDOU KYOUDOU KYOUDOU KYOUDOU ROHM ROHM	BS EF EN G U UT
	D752 D752 D752	SLA-580LT3F SLR-342VC3F SLR-342VC3F SLR-342VC3F SLR-342VC3F	L.E.D. L.E.D. L.E.D. L.E.D. L.E.D. L.E.D.	ROHM ROHM ROHM ROHM ROHM	BS EF EN G U

### CAPACITORS

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Δ	ITEM	PART NUMI	BER	D E	s (	C R	P	ı	O N	AREA
Δ	C001	QCZ9050-472	ABS 4	700P	F		CER	. CA	PACI	BS
4	C001	QCZ9050-472	A 4	700P	F		CER	. CAI	PACI	EF
Δ	C001	QCZ9050-472	A 4	700P	F		CER	. CAI	PACI	EN
Δ	C001	QCZ9050-472	A 4	700P	F		CER	- CAI	PACI	G
Δ	C001	QCZ9050-472	A 4	700P	F		CER	. CA	PACI	l u
Δ	C001	QCZ9050-472	A 4	700P	F		CER	. CAI	PACI	UT
	C020	QCHB1EZ-223	c	.022	MF	25V	CER	- CAF	PACI	
	C021	QFN81HJ~473	k	.047	MF	50V	MET	AL.	IYLA	BS
	C021	QFN81HJ-473	ic	.047	MF	50V	MET	AL.N	TYLA	EF
	C021	QFN81HJ-473	C	.047	MF	50V			IYLA	EN
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	C021	QFN81HJ-473	C	.047	MF	50V	MET	AL.N	IYLA	G
	C021	QFN32AJ-473	z k	.047	MF	100V	MYL	AR		l u
	C021	QFN32AJ-473	z İo	.047	MF	100V	MYL	AR		UT
	C022	EETB1EM-477	E 4	70MF		25V	E.C	APAC	OTI	BS
	C022	EETB1EM-477	E 4	70MF		25 V	E.C	APAC	OTI	EF
	C022	EETB1EM-477	E 4	70MF		25V	E.C	APAC	TO	EN
- 1	C022	EETB1EM-477	E  4	70MF		25 V	E.C	APAC	ITO	G
i	C022	EETB1JM-477	E ]4	70MF		53V	E.C	APAC	OTI	U
- 1	C022	EETB1JM-477	E 4	70MF		53V	E.C	APAC	OTI	UΤ
	C023	QFN82AJ-103	ю	.01M	F :	1000	MYL	AR		U
	C023	QFN82AJ-103	0	.01M	F :	1000	MYL	AR		UΤ
	C024	QCVB1CM-103	y ko	.01M	F :	16V	CER	AMIC		
	C025	EETB1CM-4761	E  4	7MF	:	16V	E.C.	APAC	ITO	
	C751	QER50JM-107	1	OOMF		5.3V	AL	E.CA	PAC	
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A : (S(A/F)E/T(Y) (P:A/R)T(S

### RESISTORS

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Δ	ITEM	PART NUMBER	DЕ	s	C R	1	Р 7	r i	0	N.	AREA
	R001	QRD161J-105	1 M		1/6			BON		ES	U
1	R001	QRD161J-105	1 M		1/6			BON		E S	UT
	R002	QRD161J-105	1 M		1/6			BON		ES	U
į	R002	QRD161J-105	1 M		1/6			BON		ES	UT
	R003	QRD161J-105	1 M		1/64	l	CAR	BON	R	ES.	U
1	R003	QRD161J-105	1 M		1/64	ı	CAR	BON	R	ES	UT
1	R011	QRD161J-102	1 K		1/6	ı	CAR	BON			
1	R021	QRZ0077-120	12		1/4%	1	FUS	IBL	E	RE :	BS
1	R021	QRZ0077-120	12		1/4	ı	FUS	IBL	E	RE	EF I
Λ	R021	QRZ0077-120	12		1/44	1	FUS	IBL	E 1	RE	EN
4	R021	QRZ0077-120	12		1/4	1	FUS	IBL	E 1	RE	G
1		QRZ0077-100	10		1/4W	1	FUS	IBL	E. 1	RE	U
1 1	R021	QRZ0077-100	10		1/4W		FUS	IBL	E	RE	ו דט
1	R022	QRG012J-472A	4.7K		1 W		0.M	.FI	LM		υ
1		QRG012J-472A	4.7K		1 W		0.M	.FI	LM	i	UT
	R023	QRD161J-152	1.5K		1/6W		CAR	BON	Rı	ES	
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### OTHERS

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ITEM	PART NUMBER DESCRIPTION	ARE
	EMG7331-002 FEEDER CLAM	
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	QWE883-36RR WIRE	Ü
	QWEB84-32RR WIRE	ľ
	QWE886-28RR WIRE	U
	QWE886-OBRR WIRE	Ū
	QWE888-40RR WIRE	U
	E70945-H40B HEAT SINK	UT
	SBSG3008CC TAPPING SCR	UT
	E67132-T4RO FUSE LABEL	UT
5002		UT
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J001		UT
J002	QMCA004-E01G AC OUTLET	EF
1005	QMCA004-E01G AC OUTLET	EN
J002	QMCA004-E01G AC OUTLET	G
J003	QMCAOO4-EO2GBS AC OUTLET	BS
J021	EMV7122-103 CONNECT TER	l
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	5002 001 002 J001 J002 J002 J002 J002 J002 J003	EMG7331-002 EMG7331-002 EMG7331-002 GWE881-17RRBS PIN WIRE QWE881-17RR PIN WIRE QWE881-17RR PIN WIRE QWE881-17RR PIN WIRE QWE881-17RR PIN WIRE QWE881-17RR PIN WIRE QWE888-17RR PIN WIRE QWE889-18RR WIRE QWE889-18RR WIRE QWE889-18RR WIRE QWE883-36RR WIRE QWE884-32RR WIRE QWE888-40RR WIRE QWE888-40RR WIRE QWE889-18RR WIRE QWE889-18RR WIRE QWE889-18RR WIRE QWE889-18RR WIRE QWE881-28RR WIRE QWE889-18RR WIRE QWE888-28RR WIRE QWE888-28RR WIRE QWE888-33RR WIRE QWE888-28RR WIRE QWE888-38R WIRE QWE888-38R WIRE QWE888-38R WIRE QWE888-38R WIRE QWE888-38R WIRE QWE888-38R WIRE QWE888-38R WIRE QWE888-38R WIRE QWE88-38R WIRE QWE8R-38R R WIRE QWE8R-3R WIRE QWE8R-3-38R WIRE QWE8R-3-38R WIRE QWE8R-3-38R WIRE QWE8R-

(No. 20492) 2-15

### **Accessories List**

Symbol No. M 3 M M

$\triangle$	Item	Part Number	Part Name	Q'ty	Description	Area
	1	E30580-2154ABS	INSTRUCTION BOOK	1		BS
		E30580-2154A	INSTRUCTION BOOK	1		EF
		E30580-2155A	INSTRUCTION BOOK	1		EF
		E30580-2155A	INSTRUCTION BOOK	1	• (	EN
		E30580-2156A	INSTRUCTION BOOK	1		EN
		E30580-2155A	INSTRUCTION BOOK	1		G
		E30580-2154A	INSTRUCTION BOOK	1		U
		E30580-2155A	INSTRUCTION BOOK	1		U
1		E30580-2154A	INSTRUCTION BOOK	1		UT
		E30580-2155A	INSTRUCTION BOOK	1		UT
	2	BT20060	WARRANTY CARD	1		BS
i I	3	BT20066A	WARRANTY CARD	1		BS
	4	BT-20134	WARRANTY CARD	1		G
	5	E43486-340A	SAFETY SHEET	1		BS
	6	E43486-371A	INSTRUCTION SHEET	1		BS
$\Lambda$	7	EMC0202-001BS	AC PLUG	1		B\$
$ \Lambda $	8	ENZ2203-001	ADAPTOR PLUG	1		U
$  \Lambda  $		ENZ2203-001	ADAPTOR PLUG	1		UT
	9	RM-SA5U	REMOCON UNIT	1		
	10	UM-4NJ-2PSA	DRY BATTERY	1		
	11	QPGA025-03505B	POLY BAG	1		
	12	RM-SX505BATC	BATTERY COVER	1		

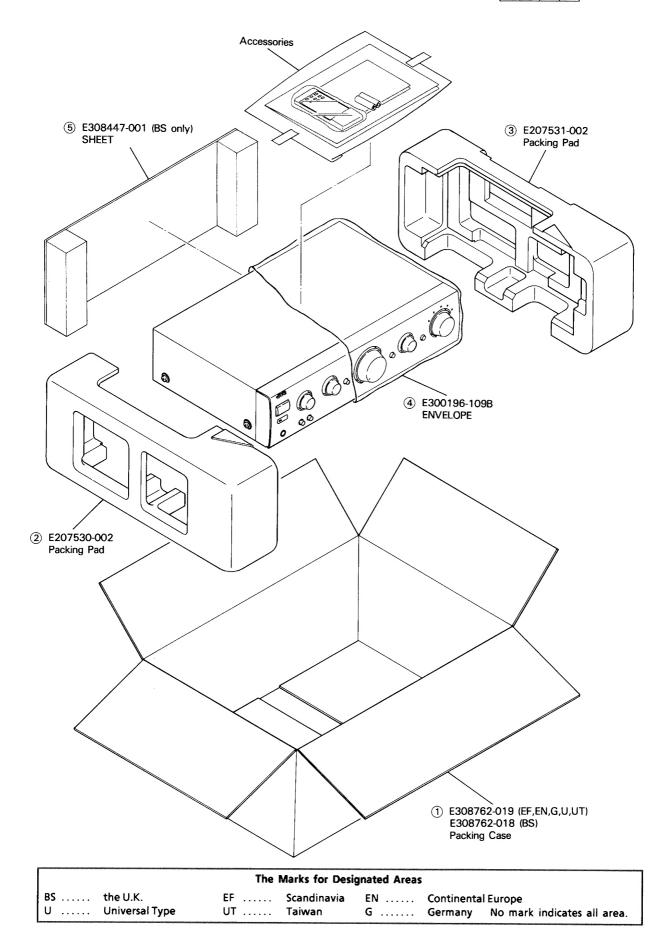
**ASAFETY PARTS** 

### The Marks for Designated Areas

G ... Germany
EF .. Continental Europe U ... Universal Type BS .. the U.K. UT ... Taiwan EN .. Scandinavia

No mark indicates all area.

### Packing Materials and part Numbers Symbol No. M 4 M M





VICTOR COMPANY OF JAPAN, LIMITED

AUDIO DIVISION, YAMATO PLANT, 1644, SHIMOTSURUMA, YAMATO-SHI, KANAGAWA-KEN, 242, JAPAN